

CONTENTS



CELECCA

SWITCHING POWER SUPPLY

Regular Power Supply

LRS-10/20/35/50/75/100/150/200/350	P.02-04
NEL-200/300/400	P.05
NES-15/25/35/50/75/100/150	P.06-07
NED-35A/35B/50A/50B/75A/75B/100C/100D	P.07-08
NET-35A/35B/35C/35D/50A/50B/50C/50D/75A/75B/75C/75D	P.08
NES-200/350	P.09
S-15/35/50/100/145/201/350/400/500	P.10-12
D-30A/30B D-50A/50B D-60A/60B D-120A/120B	P.13-14
T-30A/30B T-50A/50B/50C/50D T-60A/60B/60C	P.14-15
T-120A/120B/120C/120D	P.16-17
Q-60B/60C/60D Q-120B/120C/120D	P.17
LES-200/350	

Maximum Watt Power Supply

SCN-600/800/1200/1500	P.18-19
SV-800/1000/1500/2000/3000/5000	P.19-20

PFC Function Power Supply

SP-75/100/150/200/320/500	P.21-23
RSP-75/100/150/200/320/500	P.23-24

DIN Rail Power Supply

MDR-20/40/60/100	P.25
DR-15/30/60/100	P.26
DR-45/75/120	P.27
DRP-240/480	P.27
NDR-75/120/240/480	P.28
EDR-15/30/60/100/150	P.29
DDR-15/30/60/120/240/480	P.30
HDR-15/30/60/100/150	P.31

UPS Battery Power Supply

SC-35/60/120/180	P.32-34
SCP-35/50/75/120	P.35
AD-55A/55B ADD-55A/55B ADS-5512/5524	P.35-36
AD-155A/155B/155C ADD-155A/155B/155C	P.37
ADS-15512/15524/15548	

DC/DC Converter

SD-15A/15B/15C	P.38
SD-25A/25B/25C	P.38-39
SD-50A/50B/50C	P.39-40
SD-100B/100C/100D	P.40
SD-150B/150C/150D	P.40-41
SD-200B/200C/200D	P.41
SD-350B/350C/350D	P.42
SD-500	P.42
ERP-200	P.43

Waterproof & Rainproof Power Supply

LDV-18/30/50/60/100/150/200/250	P.44-45
LPV-20/35/60/100/150	P.46-47
HLG-40H/60H/80H/100H/120H/150H/185H/240H/320H	P.47-50
LPC-20/35/60/100/150	P.50-51
FS-100/150/200/250/350/400	P.52

Open Frame Power Supply

PS-5/15	P.53
PS-25	P.54
PD-25A/25B	P.54
PS-45	P.55
PT-45A/45B/45C	P.55
PD-45A/45B	P.55
PS-65	P.56
PT-65A/65B/65C/65D	P.56
PD-65A/65B	P.56
EPS-15/25/35/45/65/45S/65S/120	P.57-58

Power Adapter & CCTV POWER SUPPLY BOX

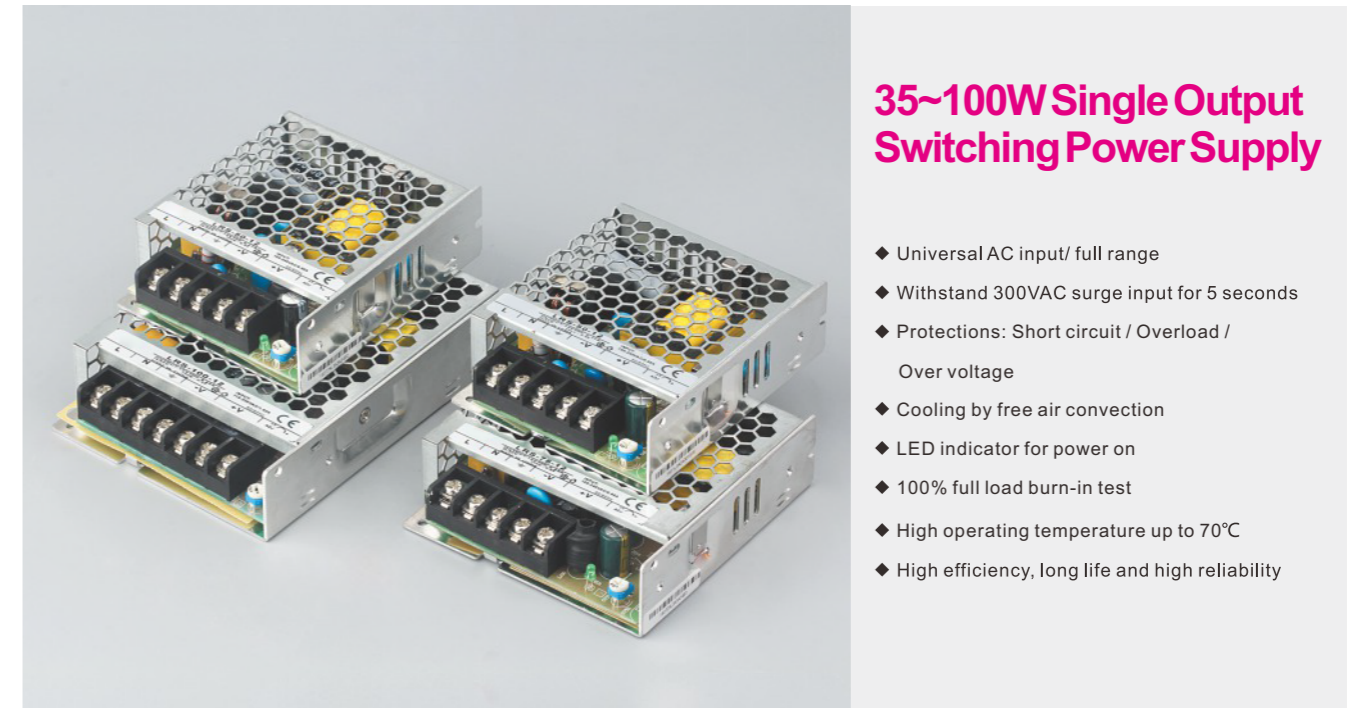
PAL-12/24/36/48/60/70/120	P.59
CCTV-60/120/200/300	P.60





10~20W Single Output Switching Power Supply

- ◆ Universal AC input/ full range
- ◆ Withstand 300VAC surge input for 5 seconds
- ◆ Protections: Short circuit / Overload / Over voltage
- ◆ Cooling by free air convection
- ◆ LED indicator for power on
- ◆ 100% full load burn-in test
- ◆ High operating temperature up to 70°C
- ◆ High efficiency, long life and high reliability



35~100W Single Output Switching Power Supply

- ◆ Universal AC input/ full range
- ◆ Withstand 300VAC surge input for 5 seconds
- ◆ Protections: Short circuit / Overload / Over voltage
- ◆ Cooling by free air convection
- ◆ LED indicator for power on
- ◆ 100% full load burn-in test
- ◆ High operating temperature up to 70°C
- ◆ High efficiency, long life and high reliability

General Specification

Model No.	LRS-10	LRS-20
AC input voltage range	100~240VAC 47-63Hz; 240~370VDC	85~132VAC/170~264VAC selected by switch 47-63Hz; 240~370VDC
AC inrush current (max.)	Cold start 15A/115V 30A/230V	
Overload protection	Range	105%-150%
	Type	Protection type: Constant current limiting, recovers automatically after fault condition is removed(LRS-10) Protection type: Shut down o/p voltage, re-power on to recover(LRS-20)
Withstand voltage	I/P-O/P: 1.5KVAC I/P-FG: 1.5KVAC O/P-FG: 0.5KVAC	
Working temperature	-10°C~+60°C; 20%~90%RH	
Safety standards	UL1012	
EMC standards	Design refer to FCC part 15J	
Dimension (L*W*H) (mm)	78*48*20mm(L*W*H)	95*58*25mm(L*W*H)
Packing	0.1Kg	0.2Kg

10W-Single Output

Model No.	Output	Tol.	R&N	Effi.
LRS-10-5	5V,0-2A	-5~+10%	50mV	65%
LRS-10-12	12V,0-0.83A	±10%	50mV	68%
LRS-10-24	24V,0-0.42A	±10%	100mV	72%

15W-Single Output

Model No.	Output	Tol.	R&N	Effi.
LRS-20-5	5V,0-4A	-5~+10%	50mV	72%
LRS-20-12	12V,0-1.7A	±10%	100mV	76%
LRS-20-15	15V,0-1.3A	±10%	100mV	77%
LRS-20-24	24V,0-0.8A	±10%	100mV	80%

General Specification

Model No.	LRS-35	LRS-50	LRS-75	LRS-100
AC input voltage range	85~264VAC 120~373VDC			
AC inrush current (max.)	Cold start, 45A at 230VAC		Cold start, 50A at 230VAC	
DC adjustment range	±10% by potentiometer			
Overload protection	Range	110%~150%		
	Type	Hiccup mode, auto-recovery		
Over voltage protection	Range	115%~135% rated output voltage		
	Type	Shut down o/p voltage, re-power on to recover		
Withstand voltage	I/P-O/P: 3.75KVAC I/P-FG: 2KVAC O/P-FG: 1.25KVAC, 1minute			
Working temperature	-30~70°C(refer to output derating curve)			
Safety standards	UL60950-1, IEC/EN60950-1, IEC/EN61558-2-16, IEC/EN60335-1, CCC GB4943 approved			
EMC standards	EN55022 class B, EN55014, EN61000-3-2, 3, EN61000-4, 2, 3, 4, 5, 6, 8, 11, GB9254			
Connection	5P/9.5mm pitch terminal block			7P/9.5mm pitch terminal block
Dimension (L*W*H) (mm)	99×82×30		99×97×30	

35W-Single Output

Model No.	Output	Tol.	R&N	Effi.
LRS-35-5	5V,0~7A	±2%	80mV	82%
LRS-35-12	12V,0~3A	±1%	120mV	86%
LRS-35-15	15V,0~2.4A	±1%	120mV	86%
LRS-35-24	24V,0~1.5A	±1%	150mV	88%
LRS-35-36	36V,0~1A	±1%	200mV	88%
LRS-35-48	48V,0~0.8A	±1%	200mV	89%

75W-Single Output

Model No.	Output	Tol.	R&N	Effi.
LRS-75-5	5V,0~14A	±2%	100mV	86.5%
LRS-75-12	12V,0~6A	±1%	120mV	89%
LRS-75-15	15V,0~5A	±1%	120mV	89%
LRS-75-24	24V,0~3.2A	±1%	150mV	90%
LRS-75-36	36V,0~2.1A	±1%	200mV	91.5%
LRS-75-48	48V,0~1.6A	±1%	200mV	91.5%

50W-Single Output

Model No.	Output	Tol.	R&N	Effi.
LRS-50-3.3	3.3V,0~10A	±3%	80mV	80%
LRS-50-5	5V,0~10A	±2%	80mV	83%
LRS-50-12	12V,0~4.2A	±1%	120mV	86%
LRS-50-15	15V,0~3.4A	±1%	120mV	88%
LRS-50-24	24V,0~2.2A	±1%	150mV	88%
LRS-50-36	36V,0~1.45A	±1%	200mV	89%
LRS-50-48	48V,0~1.1A	±1%	200mV	90%

100W-Single Output

Model No.	Output	Tol.	R&N	Effi.
LRS-100-3.3	3.3V,0~20A	±3%	100mV	84.5%
LRS-100-5	5V,0~18A	±2%	100mV	86%
LRS-100-12	12V,0~8.5A	±1%	120mV	88%
LRS-100-15	15V,0~7A	±1%	120mV	88.5%
LRS-100-24	24V,0~4.5A	±1%	150mV	90%
LRS-100-36	36V,0~2.8A	±1%	200mV	90.5%
LRS-100-48	48V,0~2.3A	±1%	200mV	91%



150~350W Single Output Switching Power Supply

- ◆ AC input range selectable by switch
- ◆ Withstand 300VAC surge input for 5 seconds
- ◆ Protections: Short circuit / Overload / Over voltage/ Over temperature
- ◆ Cooling by free air convection
- ◆ LED indicator for power on
- ◆ 100% full load burn-in test
- ◆ High operating temperature up to 70°C
- ◆ High efficiency, long life and high reliability



200~400W Economical Low Profile

- ◆ AC input 180~264VAC
- ◆ Protections: Short circuit/Overload/Over voltage/ Over temperature
- ◆ Leakage current <1mA
- ◆ Cooling by free air convection(NEL-200)
- ◆ Forced air cooling by built-in DC fan(NEL-300/NEL-400)
- ◆ Low profile:30mm
- ◆ Withstand 300vac surge input for 5 second
- ◆ LED indicator for power on
- ◆ Conformal coating
- ◆ Low cost,high reliability
- ◆ 100%full load burn-in test

General Specification

Model No.	LRS-150	LRS-200	LRS-350
AC input voltage range	115/230VAC by switch		
AC inrush current (max.)	Cold start, 60A at 230VAC		
DC adjustment range	±10% by potentiometer		
Overload protection	Range	110~140%	
	Type	Hiccup mode, auto-recovery	
Over voltage protection	Range	115%~145% rated output voltage	
	Type	Shut down o/p voltage, re-power on to recover	
Withstand voltage	I/P-O/P:3.75KVAC, I/P-FG:2KVAC, O/P-FG:1.25KVAC	I/P-O/P:3KVAC, I/P-FG:2KVAC, O/P-FG:0.5KVAC	
Working temperature	-30~+70°C	-25~+70°C (refer to derating curve)	
Safety standards	UL60950-1, IEC/EN60950-1, IEC/EN61558-1, EN61558-2-16, IEC/EN60335-1, CCC GB4943 approved	UL60950-1 approved	
EMC standards	EN55022 class B, EN55014, EN61000-3-2 (120W), 3, EN61000-4, 2, 3, 4, 5, 6, 8, 11, GB9254	Design refer to En55022 class A	
Connection	7P/9.5mm pitch terminal block	9P/9.5mm pitch terminal block	
Dimension (L*W*H) (mm)	159x97x30	215x115x30	

150W-Single Output

Model No.	Output	Tol.	R&N	Effi.	Model No.	Output	Tol.	R&N	Effi.
LRS-150-12	12V,0~12.5A	±1%	150mV	87.5%	LRS-150-36	36V,0~4.3A	±1%	200mV	89%
LRS-150-15	15V,0~10A	±1%	150mV	88.5%	LRS-150-48	48V,0~3.3A	±1%	200mV	90%
LRS-150-24	24V,0~6.5A	±1%	200mV	89%					

200W-Single Output

Model No.	Output	Tol.	R&N	Effi.
LRS-200-3.3	3.3V,0~40A	±3%	150mV	83%
LRS-200-5	5V,0~40A	±3%	150mV	87%
LRS-200-12	12V,0~17A	±1.5%	150mV	87.5%
LRS-200-15	15V,0~14A	±1%	150mV	88%
LRS-200-24	24V,0~8.8A	±1%	150mV	89.5%
LRS-200-36	36V,0~5.9A	±1%	200mV	89.5%
LRS-200-48	48V,0~4.4A	±1%	200mV	90%

350W-Single Output

Model No.	Output	Tol.	R&N	Effi.
LRS-350-3.3	3.3V,0~60A	±4%	150mV	79.5%
LRS-350-5	5V,0~60A	±3%	150mV	83.5%
LRS-350-12	12V,0~29A	±1.5%	150mV	85%
LRS-350-15	15V,0~23.2A	±1%	150mV	86%
LRS-350-24	24V,0~14.6A	±1%	150mV	88%
LRS-350-36	36V,0~9.7A	±1%	200mV	88.5%
LRS-350-48	48V,0~7.3A	±1%	200mV	89%

General Specification

Model No.	NEL-200	NEL-300	NEL-400
AC input voltage range	180~264VAC	254~370VDC	
AC inrush current (max.)	Cold start, 70A at 230VAC	Cold start, 100A at 230VAC	
DC adjustment range	5V; 4.5~5.5V		
Overload protection	110%~150% Hiccup mode, auto-recovery	105%~140% Hiccup mode, auto-recovery	
Over voltage protection	5V; 5.6~7V Hiccup mode, auto-recovery		
Setup, rise, hold up time	2500ms, 50ms, 20ms		
Withstand voltage	I/P-O/P:3KVAC, I/P-FG:2KVAC, O/P-FG:0.5KVAC		
Working temperature	-20~+60°C (refer to output derating curve)		
Safety standards	UL60950-1 approved		
Dimension (L*W*H) (mm)	215x115x30		

200W-Single Output

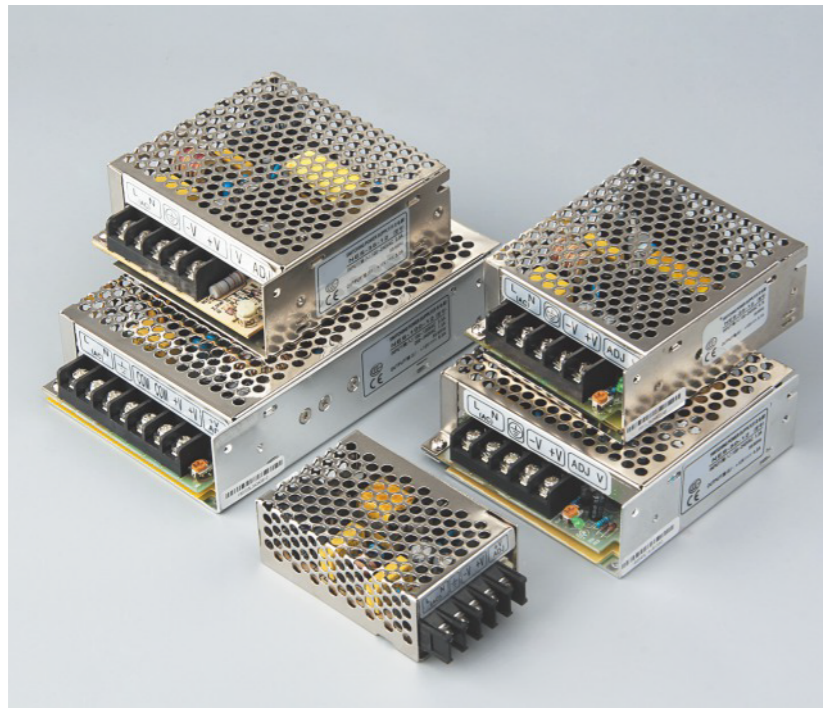
Model No.	Output	Tol.	R&N	Effi.
NEL-200-5	5V,0~40A	±3%	150mV	87%

300W-Single Output

Model No.	Output	Tol.	R&N	Effi.
NEL-300-5	5V,0~60A	±3%	150mV	86%

400W-Single Output

Model No.	Output	Tol.	R&N	Effi.
NEL-400-5	5V,0~80A	±3%	150mV	84%



15~150W Miniature 1~3 Output

- ◆ Universal AC input / Full range (NES / D-100, NES-150 AC input selectable by switch)
- ◆ Protection : Short Circuit / OLP / OVP
- ◆ Built-in over temperature protection for NES-15
- ◆ Cooling by free air convection
- ◆ Small size, high power density
- ◆ Low cost, high reliability
- ◆ 100% full load burn-in test
- ◆ Most economical low wattage solution with safety certificates

General Specification

Model No.	NES-15	NES-25	NES-35 NED/T-35	NES-50 NED/T-50	NES-75 NED/T-75	NES-100	NED-100 NES-150	
AC input voltage range	85~264VAC universal input(120~370VDC)					115/230VAC by switch		
AC in rush current (max.)	Cold start, 45A at 230VAC							
DC adjustment range	±10% by potentiometer for single output; CH1 -5~+10% by potentiometer for multiple output				-5%~+10%(NES-100/150) CH1 -5%~+10%(NED-100)			
Overload protection	> 105%	110%~150% hiccup mode, auto-recovery						
Over voltage protection	115%~135% rated output voltage, shut off					115%~135% hiccup mode, auto-recovery		
Withstand voltage	I/P-O/P:3KVAC,I/P-FG:2KVAC,O/P-FG:0.5KVAC,1minute							
Working temperature	-20~+60°C (refer to the derating curve for different models)							
Vibration	10~500Hz, 2G 10min/1 cycle, period for 60 min each along X, Y, Z axes							
Safety standards	UL60950-1,EN60950-1(NES-150 only),GB4943(NES only) approved,also design refer to TUV EN60950-1							
EMC standards	EN55022 class B, EN61000-3-2,3,EN61000-4-2,3,4,5,6,8,11,GB92S4(NZ=sonly)							
Connection	Terminal block for input and output							
Dimension (L*W*H) (mm)	78×51×28	99×82×35	99×97×36	129×98×38	159×97×38	159×97×38	199×98×38	
Packing	0.16kg/pc	0.24kg/pc	0.32kg/pc	0.35kg/pc	0.45kg/pc	0.52kg/pc	0.75kg/pc	

15W-Single Output

Model No.	Output	Tol.	R&N	Effi.
NES-15-5	5V, 0-3.0A	±2%	150mV	79%
NES-15-12	12V, 0-1.3A	±1%	150mV	81%
NES-15-15	15V, 0-1.0A	±1%	150mV	81%
NES-15-24	24V, 0-0.7A	±1%	200mV	85%
NES-15-48	48V, 0-0.35A	±1%	240mV	82%

25W-Single Output

Model No.	Output	Tol.	R&N	Effi.
NES-25-5	5V, 0-5.0A	±2%	80mV	78%
NES-25-12	12V, 0-2.1A	±1%	120mV	83%
NES-25-15	15V, 0-1.7A	±1%	150mV	84%
NES-25-24	24V, 0-1.1A	±1%	200mV	86%
NES-25-48	48V, 0-0.57A	±1%	240mV	86%

35W-Single Output

Model No.	Output	Tol.	R&N	Effi.
NES-35-5	5V, 0-7.0A	±2%	80mV	78%
NES-35-12	12V, 0-3.0A	±1%	120mV	81%
NES-35-15	15V, 0-2.4A	±1%	150mV	83%
NES-35-24	24V, 0-1.5A	±1%	200mV	85%
NES-35-48	48V, 0-0.8A	±1%	240mV	86%

50W-Single Output

Model No.	Output	Tol.	R&N	Effi.
NES-50-5	5V, 0-10A	±2%	80mV	79%
NES-50-12	12V, 0-4.2A	±1%	120mV	82%
NES-50-15	15V, 0-3.4A	±1%	150mV	83%
NES-50-24	24V, 0-2.2A	±1%	200mV	86%
NES-50-48	48V, 0-1.1A	±1%	240mV	87%

75W-Single Output

Model No.	Output	Tol.	R&N	Effi.
NES-75-5	5V, 0-14A	±2%	80mV	77%
NES-75-12	12V, 0-6.2A	±1%	120mV	82%
NES-75-15	15V, 0-5.0A	±1%	150mV	83%
NES-75-24	24V, 0-3.2A	±1%	200mV	86%
NES-75-48	48V, 0-1.6A	±1%	240mV	87%

100W-Single Output

Model No.	Output	Tol.	R&N	Effi.
NES-100-5	5V, 0-20A	±2%	80mV	80%
NES-100-12	12V, 0-8.5A	±1%	120mV	83%
NES-100-15	15V, 0-7.0A	±1%	120mV	84%
NES-100-24	24V, 0-4.5A	±1%	120mV	86%
NES-100-48	48V, 0-2.3A	±1%	150mV	86%

150W-Single Output

Model No.	Output	Tol.	R&N	Effi.
NES-150-5	5V, 0-26A	±2%	80mV	78%
NES-150-12	12V, 0-12.5A	±1%	120mV	83%
NES-150-15	15V, 0-10A	±1%	120mV	83%
NES-150-24	24V, 0-6.5A	±1%	120mV	86%
NES-150-48	48V, 0-3.3A	±1%	200mV	86%

35W-Dual Output

Model No.	Output	Tol.	R&N	Effi.	Max.
NED-35A	5V, 0.5-5.0A	±2%	80mV	78%	32W
	12V, 0.1-1.5A	±6%	120mV		
NED-35B	5V, 0.5-4.0A	±2%	80mV	81%	35W
	24V, 0.2-1.3A	±6%	200mV		

50W-Dual Output

Model No.	Output	Tol.	R&N	Effi.	Max.
NED-50A	5V, 1.0-6.0A	±2%	80mV	79%	54W
	12V, 0.3-3.0A	±6%	120mV		
NED-50B	5V, 1.0-6.0A	±2%	80mV	82%	54W
	24V, 0.2-2.0A	±6%	200mV		

75W-Dual Output

Model No.	Output	Tol.	R&N	Effi.	Max.
NED-75A	5V, 1.0-8.0A	±2%	80mV	78%	71W
	12V, 0.3-4.0A	±6%	120mV		
NED-75B	5V, 1.0-6.0A	±2%	80mV	81%	73W
	24V, 0.2-3.0A	±6%	200mV		

100W-Dual Output

Model No.	Output	Tol.	R&N	Effi.	Max.
NED-100C	12V, 0-8.0A	±2%	120mV	80%	99W
	5V, 0-3.0A	±3%	80mV		
NED-100D	24V, 0-4.0A	±2%	120mV	82%	99W
	5V, 0-3.0A	±3%	80mV		

35W-Triple Output

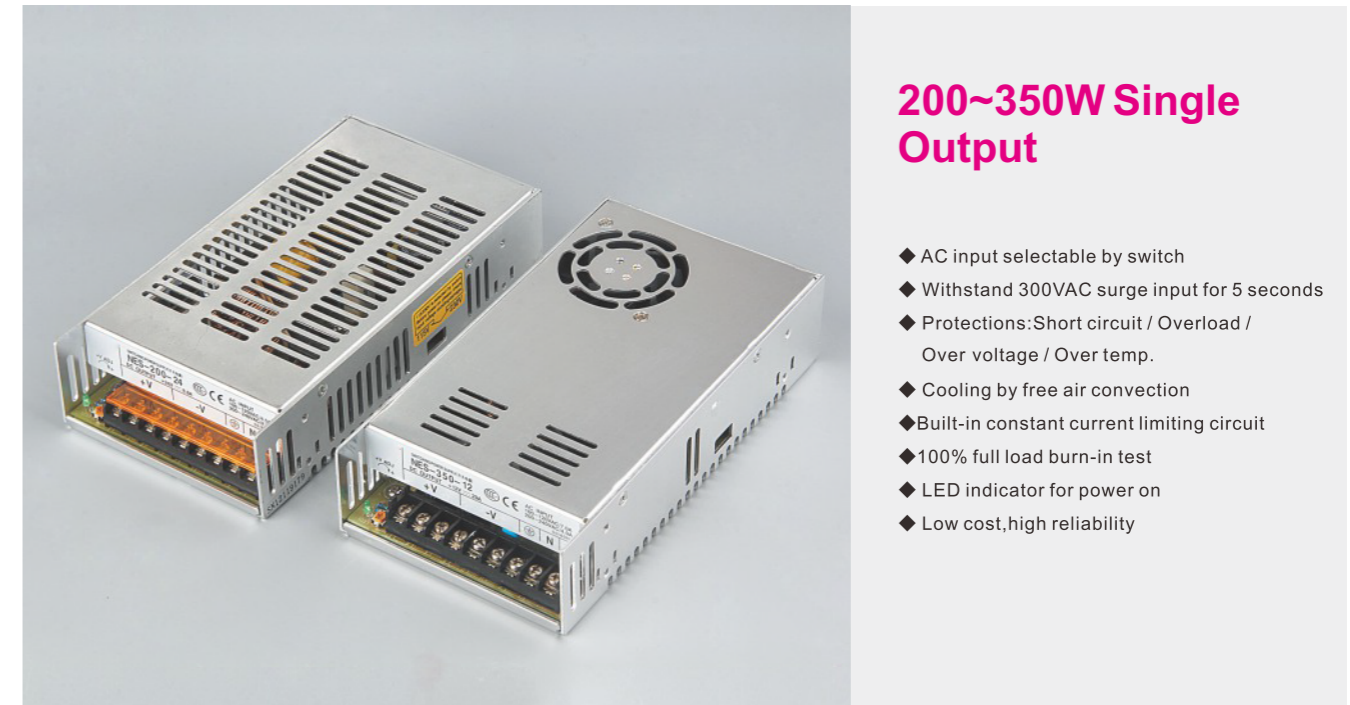
Model No.	Output	Tol.	R&N	Effi.	Max.
NET-35A	5V, 0.5-4.0A	±2%	80mV	78%	30W
	12V, 0.1-1.5A	±6%	120mV		
NET-35B	-5V, 0.1-0.5A	±6%	120mV	79%	33W
	5V, 0.5-4.0A	±2%	80mV		
	12V, 0.1-1.5A	±6%	120mV		
NET-35C	-12V, 0.1-0.5A	±6%	120mV	79%	35W
	5V, 0.5-3.5A	±2%	80mV		
	15V, 0.1-1.5A	±8%	150mV		
NET-35D	-15V, 0.1-0.5A	±8%	150mV	79%	37W
	5V, 0.5-3.5A	±2%	80mV		
	24V, 0.1-1.0A	±8%	200mV		
	12V, 0.1-1.0A	±8%	120mV		

50W-Triple Output

Model No.	Output	Tol.	R&N	Effi.	Max.
NET-50A	5V, 0.6-5.0A	±2%	80mV	76%	47W
	12V, 0.2-2.5A	±6%	120mV		
	-5V, 0.1-0.7A	±5%	120mV		
NET-50B	5V, 0.6-5.0A	±2%	80mV	78%	50W
	12V, 0.2-2.5A	±6%	120mV		
	-12V, 0.1-0.7A	±5%	120mV		
NET-50C	5V, 0.6-5.0A	±2%	80mV	78%	50W
	15V, 0.1-2.0A	±8%	150mV		
	-15V, 0.1-0.7A	±5%	150mV		
NET-50D	5V, 0.6-5.0A	±2%	80mV	80%	51W
	24V, 0.1-1.5A	±8%	200mV		
	12V, 0.1-1.5A	±6%	120mV		

75W-Triple Output

Model No.	Output	Tol.	R&N	Effi.	Max.
NET-75A	5V, 0.6-7.0A	±2%	80mV	77%	69W
	12V, 0.2-3.5A	±6%	120mV		
	-5V, 0.1-0.7A	±5%	120mV		
NET-75B	5V, 0.6-7.0A	±2%	80mV	78%	65W
	12V, 0.2-3.5A	±6%	120mV		
	-12V, 0.1-0.7A	±5%	120mV		
NET-75C	5V, 0.6-7.0A	±2%	80mV	78%	72W
	15V, 0.1-3.5A	±8%	150mV		
	-15V, 0.1-0.7A	±5%	150mV		
NET-75D	5V, 0.6-6.0A	±2%	80mV	80%	73W
	24V, 0.1-2.0A	±8%	200mV		
	12V, 0.1-1.5A	±6%	120mV		



200~350W Single Output

- ◆ AC input selectable by switch
- ◆ Withstand 300VAC surge input for 5 seconds
- ◆ Protections: Short circuit / Overload / Over voltage / Over temp.
- ◆ Cooling by free air convection
- ◆ Built-in constant current limiting circuit
- ◆ 100% full load burn-in test
- ◆ LED indicator for power on
- ◆ Low cost, high reliability

General Specification

Model No.	NES-200	NES-350
AC input voltage range	90~132VAC/180~264VAC selectable by switch	
DC adjustment range	±10% rated output range	
Overload protection	105%~150% constant current limiting, auto-recovery	
Over voltage protection	115%~145% rated output voltage	
Setup, rise, hold up time	1000ms, 50ms, 20ms at full load and 230VAC	
Withstand voltage	I/P-O/P: 3kVAC, I/P-FG: 1.5kVAC, O/P-FG: 0.5kVAC	
Working temperature	-20℃~+50℃ (refer to output derating curve)	-20℃~+60℃ (refer to output derating curve)
Safety standards	UL60950-1 approved	
Packing	0.93kg/pc	1.07kg/pc

200W Single Output

Model No.	Output	Tol.	R&N	Effi.
NES-200-3.3	3.3V, 0-40A	±2%	150mV	75%
NES-200-5	5V, 0-40A	±2%	150mV	79%
NES-200-7.5	7.5V, 0-27A	±2%	150mV	82%
NES-200-12	12V, 0-17A	±1%	150mV	85%
NES-200-15	15V, 0-14A	±1%	150mV	85%
NES-200-24	24V, 0-8.8A	±1%	150mV	87%
NES-200-27	27V, 0-7.8A	±1%	200mV	88%
NES-200-36	36V, 0-5.9A	±1%	240mV	89%
NES-200-48	48V, 0-4.4A	±1%	240mV	89%

350W Single Output

Model No.	Output	Tol.	R&N	Effi.
NES-350-3.3	3.3V, 0-60A	+3%, -4.5%	150mV	74%
NES-350-5	5V, 0-60A	+3.0%	150mV	78%
NES-350-7.5	7.5V, 0-46A	±2.0%	150mV	80%
NES-350-12	12V, 0-29A	±1.5%	150mV	83%
NES-350-15	15V, 0-23.2A	±1.0%	150mV	84%
NES-350-24	24V, 0-14.6A	±1.0%	150mV	87%
NES-350-27	27V, 0-13A	±1.0%	200mV	88%
NES-350-36	36V, 0-9.7A	±1.0%	240mV	87.5%
NES-350-48	48V, 0-7.3A	±1.0%	240mV	87.5%



15~350W Single Output

- ◆ AC input range selectable by switch
- ◆ Protections: Short circuit/OLP(all models)
- ◆ Over voltage protection(S-145/201/350)
- ◆ Over temperature protection(S-201/350)
- ◆ Cooling by free air convection(15~200W)
- ◆ Cooling by built-in DC fan with fan ON/OFF auto control (350W)
- ◆ 100% full load burn-in test
- ◆ LED indicator for power on
- ◆ Low cost
- ◆ 2 years warranty

General Specification

Model No.	S-15	S-35	S-50	S-100	S-145	S-201	S-350
AC in put voltage range	85~132VAC/170~264VAC selectable by switch			90~132VAC/180~264VAC selectable by switch			
AC inrush current(230VAC)	30A	36A	36A	60A	35A	50A	50A
DC adjustment range	± 10% rated output voltage						
OLP	Range	105~150%(S-100-7.5: 150~200%, S-100-36: 130~180%)			105~165%	105~135%	
	Type	Fold back current limiting, auto-recovery			Shut off, AC recycle to re-start	Hiccup mode	Constant current
Over voltage protection	S-145/201: 115%~145%, shut off, re-power on to recover, S-350: 115%~135% hiccup mode, auto-recovery						
Withstand voltage	I/P-O/P:1.5KVAC, I/P-FG: 1.5KVAC, 1 minute						
Working temperature	-10~+60℃ (refer to output derating curve)				-10~+50℃	-10~+60℃	
Safety standards	Design refer to UL 1012				Design refer to UL 1950		
EMC standards	Design refer to Fcc part 15 J						
Connection	Terminal block for input and output						
Dimension(L*W*H)(mm)	99×97×36	129×98×38	159×97×38	199×98×38	199×98×38	215×115×50	215×115×50
Packing	0.29kg/pc	0.33kg/pc	0.41kg/pc	0.57kg/pc	0.71kg/pc	0.76kg/pc	1.0kg/pc

15W / S-15

Model No.	Output	Tol.	R&N	Effi.
S-15-5	5V, 0-3.0A	±2%	50mV	65%
S-15-12	12V, 0-1.3A	±1%	50mV	68%
S-15-24	24V, 0-0.7A	±1%	100mV	72%

35W / S-35

Model No.	Output	Tol.	R&N	Effi.
S-35-5	5V, 0-7.0A	±2%	75mV	70%
S-35-12	12V, 0-3.0A	±1%	100mV	76%
S-35-15	15V, 0-2.4A	±1%	100mV	78%
S-35-24	24V, 0-1.5A	±1%	100mV	78%

50W / S-50

Model No.	Output	Tol.	R&N	Effi.
S-50-5	5V, 0-10A	±2%	75mV	71%
S-50-12	12V, 0-4.2A	±1%	100mV	78%
S-50-15	15V, 0-3.4A	±1%	100mV	78%
S-50-24	24V, 0-2.1A	±1%	100mV	82%

100W / S-100

Model No.	Output	Tol.	R&N	Effi.
S-100-3	3V, 0-20A	±2%	100mV	70%
S-100-5	5V, 0-20A	±2%	100mV	78%
S-100-7.5	7.5V, 0-13.6A	±1%	100mV	80%
S-100-10	10V, 0-10A	±1%	100mV	80%
S-100-12	12V, 0-8.5A	±1%	100mV	81%
S-100-15	15V, 0-6.7A	±1%	100mV	81%
S-100-18	18V, 0-5.6A	±1%	100mV	82%
S-100-24	24V, 0-4.5A	±1%	100mV	84%
S-100-27	27V, 0-3.7A	±1%	100mV	84%
S-100-36	36V, 0-2.7A	±1%	100mV	84%
S-100-48	48V, 0-2.2A	±1%	100mV	84%

145W / S-145

Model No.	Output	Tol.	R&N	Effi.
S-145-5	5V, 0-25A	±2%	100mV	78.0%
S-145-7.5	7.5V, 0-18A	±1%	120mV	80.5%
S-145-12	12V, 0-12A	±1%	120mV	80.5%
S-145-15	15V, 0-9.6A	±1%	120mV	81.0%
S-145-24	25V, 0-6.0A	±1%	150mV	83.5%
S-145-27	27V, 0-5.3A	±1%	200mV	85.0%
S-145-48	48V, 0-3.0A	±1%	240mV	83.5%

200W/ S-201

Model No.	Output	Tol.	R&N	Effi.
S-201-5	5V, 0-40.0A	±2%	150mV	74%
S-201-7.5	7.5V, 0-26.5A	±2%	150mV	79%
S-201-12	12V, 0-16.5A	±1%	150mV	80%
S-201-13.5	13.5V, 0-14.7A	±1%	150mV	80%
S-201-15	15V, 0-13.0A	±1%	150mV	81%
S-201-24	24V, 0-8.30A	±1%	150mV	83%
S-201-27	27V, 0-7.40A	±1%	200mV	83%
S-201-48	48V, 0-4.20A	±1%	240mV	84%

350W / S-350

Model No.	Output	Tol.	R&N	Effi.
S-350-5	5V, 0-50.0A	±2%	150mV	73%
S-350-7.5	7.5V, 0-40.0A	±2%	150mV	76%
S-350-12	12V, 0-29.0A	±1%	150mV	74%
S-350-13.5	13.5V, 0-25.8A	±1%	150mV	79%
S-350-15	15V, 0-23.2A	±1%	150mV	78%
S-350-24	24V, 0-14.6A	±1%	150mV	81%
S-350-27	27V, 0-13.0A	±1%	200mV	82%
S-350-36	36V, 0-9.70A	±1%	240mV	83%
S-350-48	48V, 0-7.30A	±1%	240mV	83%

General Specification

Model No.	S-400	S-500
AC input voltage range	90~132VAC/180~264VAC selected by switch 47~63Hz	
AC inrush current (max.)	Cold start 50A/115V 50A/230V	
DC adjustment range	± 10% rated output voltage	
Overload protection	Range	105%~135%
	Type	Protection type: Fold back current limiting, recovers automatically after fault condition is removed.
Over voltage protection	Range	115%~135%
	Type	Protection type: hiccup mode, recovers automatically after fault condition is removed.
Withstand voltage	I/P-O/P: 1.5KVAC I/P-FG: 1.5KVAC O/P-FG: 0.5KVAC	
Working temperature	-10℃~+50℃; 20%~90%RH	
Safety standards	Design refer to UI1950	
EMC standards	Design refer to EN55022, EN55024, En61000	CISPR22(EN 55022), IEC1000-4,2,3,4,5,6,8,11 IEC1000-3-2
Dimension (L*W*H) (mm)	215×115×50	241×124×66
Packing	1kg/pc	1.3kg/pc

400W/S-400

Model No.	Output	Tol.	R&N	Effi.
S-400-12	12V,0~33A	±1%	150mVp-p	79%
S-400-15	15V,0~26.6A	±1%	150mVp-p	78%
S-400-24	24V,0~16.6A	±1%	150mVp-p	81%
S-400-27	27V,0~14.8A	±1%	200mVp-p	82%
S-400-48	48V,0~8.3A	±1%	240mVp-p	83%

500W/S-500

Model No.	Output	Tol.	R&N	Effi.
S-500-12	12V,0~40A	±2%	240mVp-p	84%
S-500-13.5	13.5V,0~36A	±2%	240mVp-p	84%
S-500-15	15V,0~32A	±1%	240mVp-p	83%
S-500-24	24V,0~20A	±1%	240mVp-p	85.5%
S-500-27	27V,0~18A	±1%	200mVp-p	86.5%
S-500-48	48V,0~10A	±1%	300mVp-p	87%

500W/S-600

Model No.	Output	Tol.	R&N	Effi.
S-600-12	12V,0~40A	±2%	240mVp-p	84%
S-600-13.5	13.5V,0~36A	±2%	240mVp-p	84%
S-600-15	15V,0~32A	±1%	240mVp-p	83%
S-600-24	24V,0~20A	±1%	240mVp-p	85.5%
S-600-27	27V,0~18A	±1%	200mVp-p	86.5%
S-600-48	48V,0~12.5A	±1%	300mVp-p	87%

500W/S-800

Model No.	Output	Tol.	R&N	Effi.
S-800-12	12V,0~66A	±2%	150mVp-p	80%
S-800-15	15V,0~54A	±2%	150mVp-p	81%
S-800-24	24V,0~33A	±1%	240mVp-p	86%
S-800-36	36V,0~22A	±1%	240mVp-p	86%
S-800-48	48V,0~16A	±1%	480mVp-p	87%

500W/S-1000

Model No.	Output	Tol.	R&N	Effi.
S-1000-12	12V,0~80A	±2%	200mVp-p	84%
S-1000-13.5	13.5V,0~74A	±2%	200mVp-p	84%
S-1000-15	15V,0~66A	±1%	200mVp-p	85%
S-1000-24	24V,0~40A	±1%	200mVp-p	85.5%
S-1000-27	27V,0~37A	±1%	200mVp-p	86.5%
S-1000-48	48V,0~20A	±1%	200mVp-p	87%

500W/S-1500

Model No.	Output	Tol.	R&N	Effi.
S-1500-12	12V,0~12A	±2%	240mVp-p	83%
S-1500-24	24V,0~24A	±2%	240mVp-p	85.5%
S-1500-36	36V,0~36A	±1%	200mVp-p	86.5%
S-1500-48	48V,0~48A	±1%	300mVp-p	87%

500W/S-2000

Model No.	Output	Tol.	R&N	Effi.
S-2000-12	12V,0~40A	±2%	240mVp-p	84%
S-2000-13.5	13.5V,0~36A	±2%	240mVp-p	84%
S-2000-15	15V,0~32A	±1%	240mVp-p	83%
S-2000-24	24V,0~20A	±1%	240mVp-p	85.5%
S-2000-27	27V,0~18A	±1%	200mVp-p	86.5%
S-2000-48	48V,0~12.5A	±1%	300mVp-p	87%

500W/S-3000

Model No.	Output	Tol.	R&N	Effi.
S-3000-12	12V,0~40A	±2%	240mVp-p	84%
S-3000-13.5	13.5V,0~36A	±2%	240mVp-p	84%
S-3000-15	15V,0~32A	±1%	240mVp-p	83%
S-3000-24	24V,0~20A	±1%	240mVp-p	85.5%
S-3000-27	27V,0~18A	±1%	200mVp-p	86.5%
S-3000-48	48V,0~12.5A	±1%	300mVp-p	87%



30W~120W Dual Output Switching Power Supply

- ◆ High efficiency, high reliability, low cost
- ◆ AC input range selected by switch
- ◆ Protections: Short circuit/ Over load
- ◆ Cooling by free air convection
- ◆ LED indicator for power on
- ◆ Fixed switching frequency at 23KHz
- ◆ 2 years warranty

General Specification

Model No.	D-30	D-50	D-60	D-120
AC input voltage range	85~132VAC/170~264VAC selected by switch 47~63Hz; 240~370VDC		90~264VAC 47~63Hz; 127~370VDC	88~132VAC/176~264VAC selected by switch 47~63Hz; 248~370VDC
AC inrush current	Cold start 18A/115V 36A/230V		Cold start 25A/115V 50A/230V	Cold start 35A/115V 30A/230V
Leakage current	< 0.5mA/240VAC	< 0.5mA/240VAC	< 1mA/240VAC	< 3.5mA/240VAC
Overload protection	105%~150%			105%~135%
Setup, Rise, Hold Up Time	200ms, 50ms, 30ms at full load	200ms, 50ms, 20ms at full load	800ms, 50ms, 10ms/115VAC 300ms, 50ms, 80ms/230VAC at full load	200ms, 50ms, 20ms at full load
Working Temp., Humidity	-10°C~+60°C; 20%~90%RH			
Withstand Voltage	I/P-O/P: 1.5KVAC I/P-FG: 1.5KVAC O/P-FG: 0.5KVAC			
EMC Standard	Design refer to FCC Part15 J Conduction Class A(D-30)			
	Design refer to FCC Part15 J Conduction(D-50)			
	Design refer to EN55022(CISPR22), EN61000-3-2,-3, EN61000-4-2,3,4,5,6,8,11; ENV50204, EN55024(D-60)			
Dimension(L*W*H)(mm)	129×98×38	159×97×38	159×97×38	199×110×50
Packing	0.4kg/pc	0.52kg/pc	0.55kg/pc	0.85kg/pc

Dual Output /D-30

Model No.	Output	Tol.	R&N	Effi.	Max.
D-30A	5V, 0.5~4.0A	±2%	50mV	72%	32W
	12V, 0.1~1.0A	±3%, -7%	100mV		
D-30B	5V, 0.5~4.0A	±2%	50mV	74%	35W
	24V, 0.1~1.0A	±3% ±5%	100mV		

Dual Output /D-50

Model No.	Output	Tol.	R&N	Effi.	Max.
D-50A	5V, 1.0-6.0A	±2%	50mV	73%	54W
	12V, 0.3-2.0A	+5%, -8%	100mV		
D-50B	5V, 1.0-6.0A	±2%	50mV	73%	54W
	24V, 0.2-1.0A	±8%	100mV		

Dual Output /D-60

Model No.	Output	Tol.	R&N	Effi.	Max.
D-60A	5V, 0.3-6.0A	±2%	75mV	73%	56W
	12V, 0.2-4.0A	±6%	150mV		
D-60B	5V, 0.3-6.0A	±2%	75mV	76%	58W
	24V, 0.2-2.2A	±5%	150mV		

Dual Output /D-120

Model No.	Output	Tol.	R&N	Effi.	Max.
D-120A	5V, 2.0-12A	±2%	60mV	78%	120W
	12V, 0.5-5.0A	±6%	120mV		
D-120B	5V, 2.0-10A	±2%	60mV	80%	126W
	24V, 0.4-4.0A	±7%	150mV		



30W~120W Triple Output Switching Power Supply

- ◆ High efficiency, high reliability, low cost
- ◆ AC input range selected by switch
- ◆ Protections: Short circuit/ Over load
- ◆ LED indicator for power on
- ◆ Cooling by free air convection
- ◆ Fixed switch frequency at 23KHz
- ◆ 2 years warranty

General Specification

Model No.	T-30	T-50	T-60	T-120
AC input voltage range	85~132VAC/170~264VAC selected by switch	47~63Hz; 40~370VDC	85~264VAC 47~63Hz; 120~370VDC	88~132VAC/176~264VAC selected by switch
AC inrush current	Cold start 18A/115V 36A/230V	Cold start 20A/115V 40A/230V	Cold start 2.5A/115V 1.25A/230V	Cold start 2A/115V 1A/230V
Leakage current	< 0.75mA/240VAC	< 0.5mA/240VAC	< 1mA/240VAC	< 3.5mA/240VAC
Overload protection	105%~150%			105%~135%
Setup, Rise, Hold Up Time	200ms, 100ms, 30ms at full load	200ms, 100ms, 16ms at full load	300ms, 50ms, 80ms/230VAC at full load	200ms, 50ms, 20ms
Working Temp., Humidity	-10°C~+60°C; 20%~90%RH			
Withstand Voltage	I/P-O/P: 1.5KVAC I/P-FG: 1.5KVAC O/P-FG: 0.5KVAC			
EMC Standard	Design refer to FCC Part15 J Conduction Class A(T-30)			
	Design refer to FCC Part15 J Conduction(T-50)			
	Design CISPR22(EN5022), CLASS V, IEC801-2, 3, 4, IEC555-2 CERTIFICATION(T-60)			
	Design CISPR22(EN5022), CLASS V, IEC801-2, 3, 4, IEC555-2 CERTIFICATION(T-120)			
Dimension	129*98*38mm(L*W*H)	159*97*38mm(L*W*H)	159*97*38mm(L*W*H)	199*110*50mm(L*W*H)
Packing	0.42kg/pc	0.54kg/pc	0.55kg/pc	0.83kg/pc

Triple Output /T-30

Model No.	Output	Tol.	R&N	Effi.	Max.
T-30A	5V, 0.5-3.0A	±2%	50mV	70%	30W
	12V, 0.1-1.0A	+2%, -6%	100mV		
	-5V, 0.1-0.5A	+2%, -10%	50mV		
T-30B	5V, 0.5-3.0A	±2%	50mV	72%	30W
	12V, 0.1-1.0A	+2%, -6%	100mV		
	-12V, 0.1-0.5A	±6%	100mV		

Triple Output /T-50

Model No.	Output	Tol.	R&N	Effi.	Max.
T-50A	5V, 0.6-7.0A	±2%	100mV	66%	52W
	12V, 0.2-1.0A	±5%	100mV		
	-5V, 0.2-1.0A	±5%	100mV		
T-50B	5V, 0.6-5.0A	±2%	100mV	69%	49W
	12V, 0.2-1.0A	±5%	100mV		
	-12V, 0.2-1.0A	±5%	100mV		
T-50C	5V, 0.6-4.0A	±2%	100mV	71%	50W
	15V, 0.2-1.0A	±5%	100mV		
	-15V, 0.2-1.0A	±5%	100mV		
T-50D	5V, 0.6-4.0A	±1%	50mV	72%	51W
	12V, 0.2-1.2A	±1%	120mV		
	24V, 0.2-1.2A	±1%	120mV		

Triple Output /T-60

Model No.	Output	Tol.	R&N	Effi.	Max.
T-60A	5V, 0.5-7.0A	±2%	100mV	72%	58W
	12V, 0.2-3.5A	±6%	100mV		
	-5V, 0.0-1.0A	±6%	100mV		
T-60B	5V, 0.5-7.0A	±2%	100mV	72%	61W
	12V, 0.2-3.5A	±6%	100mV		
	-12V, 0.0-1.0A	±6%	100mV		
T-60C	5V, 0.5-7.0A	±2%	100mV	72%	63W
	15V, 0.2-3.0A	±6%	100mV		
	-15V, 0.0-1.0A	±6%	100mV		

Triple Output /T-120

Model No.	Output	Tol.	R&N	Effi.	Max.
T-120A	5V, 2.0-12A	±2%	80mV	77%	120W
	12V, 0.5-5.0A	±6%	120mV		
	-5V, 0.2-1.0A	±6%	80mV		
T-120B	5V, 2.0-12A	±2%	80mV	77%	121W
	12V, 0.5-5.0A	±6%	120mV		
	-12V, 0.2-1.0A	±6%	120mV		
T-120C	5V, 2.0-12A	±2%	80mV	76%	118W
	15V, 0.5-5.0A	+10%, -5%	150mV		
	-15V, 0.2-1.0A	+10%, -5%	150mV		
T-120D	5V, 2.0-12A	±2%	80mV	80%	118W
	12V, 0.2-5.0A	±6%	120mV		
	24V, 0.2-2.0A	±6%	180mV		



60W~120W Quad Output Switching Power Supply

- ◆ High efficiency, high reliability
- ◆ Universal AC input/ full range
- ◆ Protections: Short circuit/ Over load/ Over voltage
- ◆ Cooling by free air convection
- ◆ LED indicator for power on
- ◆ Fixed switching frequency at 35KHz
- ◆ 2 years warranty

General Specification

Model No.	Q-60	Q-120
AC input voltage range	85~264VAC 47-63Hz; 120~370VDC	88~132VAC/176~264VAC selected by switch 47-63Hz; 240~370VDC
AC inrush current	Cold start 18A/115V 36A/230V	Cold start 35A
Leakage current	< 1mA/240VAC	< 3.5mA/240VAC
Overload protection	105%~150%	105%~135%
Setup,Rise, Hold Up Time	1600ms, 20ms, 12ms/115VAC 800ms, 20ms, 70ms/230VAC at full load	200ms, 50ms, 20ms at full load
Working Temp., Humidity	-10°C~+60°C; 20%~90%RH	
Withstand Voltage	I/P-O/P: 3KVAC I/P-FG: 1.5KVAC O/P-FG: 0.5KVAC	
EMC Standard	Design refer to EN55022, EN61000-3-2, -3, EN61000-4-2, 3, 4, 5, 6, 8, 11; ENV50204(Q-60) Design refer to EN55022(CISPR22), EN61000-3-2, -3, EN55024, EN61000-4-2, 3, 4, 5, 6, 8, 11; ENV50204(Q-120)	
Dimension	159*91*38mm(L*W*H)	199*110*50mm(L*W*H)
Packing	0.56kg/pc	0.86kg/pc

Quad Output /Q-60

Model No.	Output	Tol.	R&N	Effi.	Max.
Q-60B	5V, 0.5-5.5A	±2%	100mV	70%	60W
	12V, 0.1-2.0A	±6%	120mV		
	-5V, 0.0-0.5A	±5%	100mV		
	-12V, 0.0-0.5A	±5%	120mV		
Q-60C	5V, 0.5-5.5A	±2%	100mV	72%	60W
	15V, 0.1-1.5A	+8%, -4%	120mV		
	-5V, 0.0-0.5A	±5%	100mV		
	-15V, 0.0-0.5A	±5%	120mV		
Q-60D	5V, 0.5-4.0A	±2%	100mV	75%	62W
	12V, 0.1-1.0A	±6%	120mV		
	24V, 0.1-1.0A	+8%, -4%	150mV		
	-12V, 0.0-0.5A	±5%	120mV		

Quad Output /Q-120

Model No.	Output	Tol.	R&N	Effi.	Max.
Q-120B	5V, 2.0-12A	±2%	80mV	77%	120W
	12V, 0.5-5.0A	±6%	120mV		
	-5V, 0.2-1.0A	±6%	80mV		
	-12V, 0.2-1.0A	±6%	120mV		
Q-120C	5V, 2.0-12A	±2%	80mV	76%	123W
	15V, 0.5-5.0A	+10%, -5%	150mV		
	-5V, 0.2-1.0A	±6%	80mV		
	-15V, 0.2-1.0A	+10%, -5%	150mV		
Q-120D	5V, 2.0-12A	±2%	80mV	80%	124W
	12V, 0.2-5.0A	±6%	120mV		
	24V, 0.2-2.0A	±6%	180mV		
	-12V, 0.2-1.0A	±6%	120mV		



35~100W Single Output Switching Power Supply

- ◆ Universal AC input/ full range
- ◆ Withstand 300VAC surge input for 5 seconds
- ◆ Protections: Short circuit / Overload / Over voltage
- ◆ Cooling by free air convection
- ◆ LED indicator for power on
- ◆ 100% full load burn-in test
- ◆ High operating temperature up to 70°C
- ◆ High efficiency, long life and high reliability

General Specification

Model No.	LES-200	LES-350
AC input voltage range	115/230VAC by switch	
AC inrush current (max.)	Cold start, 60A at 230VAC	
DC adjustment range	±10% by potentiometer	
Overload protection	Range	110~140%
	Type	Hiccup mode, auto-recovery
Over voltage protection	Range	115%~145% rated output voltage
	Type	Shut down o/p voltage, re-power on to recover
Withstand voltage	I/P-O/P: 3.75KVAC, I/P-FG: 2KVAC, O/P-FG: 1.25KVAC	I/P-O/P: 3KVAC, I/P-FG: 2KVAC, O/P-FG: 0.5KVAC
Working temperature	-30~+70°C	
Safety standards	UL60950-1, IEC/EN60950-1, IEC/EN61558-1, EN61558-2-16, IEC/EN60335-1, CCC GB4943 approved	UL60950-1 approved
EMC standards	EN55022 class B, EN55014, EN61000-3-2 (120W), 3, EN61000-4-2, 3, 4, 5, 6, 8, 11, GB9254	Design refer to EN55022 class A
Connection	7P/9.5mm pitch terminal block	9P/9.5mm pitch terminal block
Dimension (L*W*H) (mm)	159×97×30	215×115×30

200W-Single Output

Model No.	Output	Tol.	R&N	Effi.
LES-200-3.3	3.3V, 0~40A	±3%	150mV	83%
LES-200-5	5V, 0~40A	±3%	150mV	87%
LES-200-12	12V, 0~17A	±1.5%	150mV	87.5%
LES-200-15	15V, 0~14A	±1%	150mV	88%
LES-200-24	24V, 0~8.8A	±1%	150mV	89.5%
LES-200-36	36V, 0~5.9A	±1%	200mV	89.5%
LES-200-48	48V, 0~4.4A	±1%	200mV	90%

350W-Single Output

Model No.	Output	Tol.	R&N	Effi.
LES-350-3.3	3.3V, 0~60A	±4%	150mV	79.5%
LES-350-5	5V, 0~60A	±3%	150mV	83.5%
LES-350-12	12V, 0~29A	±1.5%	150mV	85%
LES-350-15	15V, 0~23.2A	±1%	150mV	86%
LES-350-24	24V, 0~14.6A	±1%	150mV	88%
LES-350-36	36V, 0~9.7A	±1%	200mV	88.5%
LES-350-48	48V, 0~7.3A	±1%	200mV	89%



600~800W Single Output With Parallel Function

- ◆ AC input range selectable by switch
- ◆ Protections: Short circuit / Over voltage / Overload / Over temp.
- ◆ Built-in remote sense function
- ◆ Built-in remote ON/OFF control
- ◆ Built-in parallel operation function
- ◆ Can adjust from 20~100% output voltage by external control 1~5VDC
- ◆ Forced air cooling by built-in DC fan
- ◆ 2 years warranty

General Specification

	SCN-600	SCN-800
AC input voltage range	90~130VAC / 180~260VAC selectable by switch	
AC inrush current	Cold start, 60A at 230VAC	
DC adjustment range	±5% rated output voltage by potential meter 20~100% by external control voltage 1~5 VDC	
Setup, rise, hold up time	800ms, 50ms, 16ms at full load and 230VAC	
Overload protection	110~135% constant current limiting, delay shutdown	
Over voltage protection	110~135% rated output voltage	
Withstand voltage	I/P-O/P, I/P-FG: 1500VAC, 1 minute	
Working temperature	-10℃~+50℃@100%, 65℃@50% load	
Safety standards	UL60950-1, CSA22.2 for 600W only	
Packing	2.57kg/pc	

600~800W Single Output

Model No.	Output	Tol.	R&N	Effi.
SCN-600-05	5V, 0-100A	±1.5%	100mV	77%
SCN-600-12	12V, 0-50.0A	±1.0%	120mV	80%
SCN-600-15	15V, 0-40.0A	±1.0%	150mV	81%
SCN-600-24	24V, 0-25.0A	±1.0%	240mV	85%
SCN-600-48	48V, 0-12.0A	±1.0%	480mV	87%
SCN-800-12	12V, 0-66.0A	±1.0%	150mV	80%
SCN-800-15	15V, 0-54.0A	±1.0%	150mV	81%
SCN-800-24	24V, 0-33.0A	±1.0%	240mV	85%
SCN-800-48	48V, 0-16.6A	±1.0%	480mV	87%



1200/1500W Single Output With Parallel Function

- ◆ AC input 200~260V only
- ◆ Protections: Shortcircuit/Over voltage/Overload / Over temp.
- ◆ Built-in remote sense function
- ◆ Built-in remote ON/OFF control
- ◆ Built-in parallel operation function
- ◆ Can adjust from 20~100% output voltage by external control 1~5VDC
- ◆ Forced air cooling by built-in DC fan
- ◆ 2 years warranty

General Specification

Model No.	SCN-1200	SCN-1500
AC input voltage range	200~260VAC	
AC inrush current	Cold start, 120A at 230VAC	
DC adjustment range	±5% rated output voltage by potential meter 20~100% by external control voltage 1~5 VDC	
Setup, rise, hold up time	800ms, 50ms, 16ms at full load and 230VAC	
Overload protection	110~135% constant current limiting, delay shutdown	
Over voltage protection	110~135% rated output voltage	
Withstand voltage	I/P-O/P, I/P-FG: 1500VAC, 1 minute	
Working temperature	-10℃~+50℃@100%, 65℃@50% load	
Safety standards	UL60950-1, CSA22.2 approved	design refer to UL60950-1, CSA22.2
Packing	4.4kg/pc	

1200W Single Output

Model No.	Output	Tol.	R&N	Effi.
SCN-1K2-05	5V, 0-180A	±2.5%	100mV	77%
SCN-1K2-12	12V, 0-100A	±1.0%	120mV	83%
SCN-1K2-15	15V, 0-80.0A	±1.0%	150mV	85%
SCN-1K2-24	24V, 0-50.0A	±1.0%	240mV	85%
SCN-1K2-48	48V, 0-24.0A	±1.0%	480mV	87%

1500W Single Output

Model No.	Output	Tol.	R&N	Effi.
SCN-1K5-12	12V, 0-125A	±1%	120mV	83%
SCN-1K5-15	15V, 0-100A	±1%	150mV	84%
SCN-1K5-24	24V, 0-62.5A	±1%	240mV	85%
SCN-1K5-48	48V, 0-32.0A	±1%	480mV	87%



1000W Single Output switching power supply

- ◆ High efficiency, high reliability
- ◆ 100% full load burn-in test
- ◆ Protection: Short circuit/ Over load / Over voltage
- ◆ 1 year warranty

General Specification

Model No.	SV-1000	SV-1500	SV-2000	SV-3000	SV-5000	SV-6000
voltage range	AC220V±20% 47~63HZ	AC110V±15% 47~63HZ	AC220V±20% 47~63HZ			
AC inrush current (max.)	40A/230V	16A/115V	3.2A/115V 1.6A/230V			
Leakage Current	<0.5MA/230VAC					
Overload protection	Range	110~150%				
	Type	Protection type: Shut down o/p voltage, re-power on to recover				
Over voltage protection	Range	110~150%				
	Type	Protection type: Shut down o/p voltage, re-power on to recover				
Withstand voltage	I/P-O/P: 1.5KVAC/1min		I/P-F/G: 1.5KVAC/1min			
Isolation Resistance	O/P-F/G: 0.5KVAC /1min					
Dimension(L*W*H)(mm)	260×145×115	260×145×115	300×150×130	400×220×150	500×500×150	

1000W-Single Output

Model No.	Output	Tol.	R&N	Effi.
SV-1000-12	12V,0-83.3A	±0.5%	160mV	86%
SV-1000-15	15V,0-66.6A	±0.5%	180mV	86%
SV-1000-24	24V,0-41.6A	±0.5%	190mV	87%
SV-1000-30	30V,0-33.3A	±0.5%	320mV	87%
SV-1000-48	48V,0-20.8A	±0.5%	400mV	89%
SV-1000-110	110V,0-9A	±0.5%	900mV	89%

1500W-Single Output

Model No.	Output	Tol.	R&N	Effi.
SV-1500-12	12V,0-125A	±0.5%	160mV	86%
SV-1500-15	15V,0-100A	±0.5%	180mV	86%
SV-1500-24	24V,0-62.5A	±0.5%	190mV	87%
SV-1500-30	30V,0-50A	±0.5%	320mV	87%
SV-1500-48	48V,0-32A	±0.5%	600mV	89%
SV-1500-110	110V,0-13.6A	±0.5%	900mV	89%

2000W-Single Output

Model No.	Output	Tol.	R&N	Effi.
SV-2000-12	12V,0-166A	±0.5%	160mV	86%
SV-2000-15	15V,0-133A	±0.5%	180mV	86%
SV-2000-24	24V,0-83.3A	±0.5%	190mV	87%
SV-2000-30	30V,0-66A	±0.5%	320mV	87%
SV-2000-48	48V,0-41.6A	±0.5%	400mV	89%
SV-2000-110	110V,0-18A	±0.5%	900mV	89%

3000W-Single Output

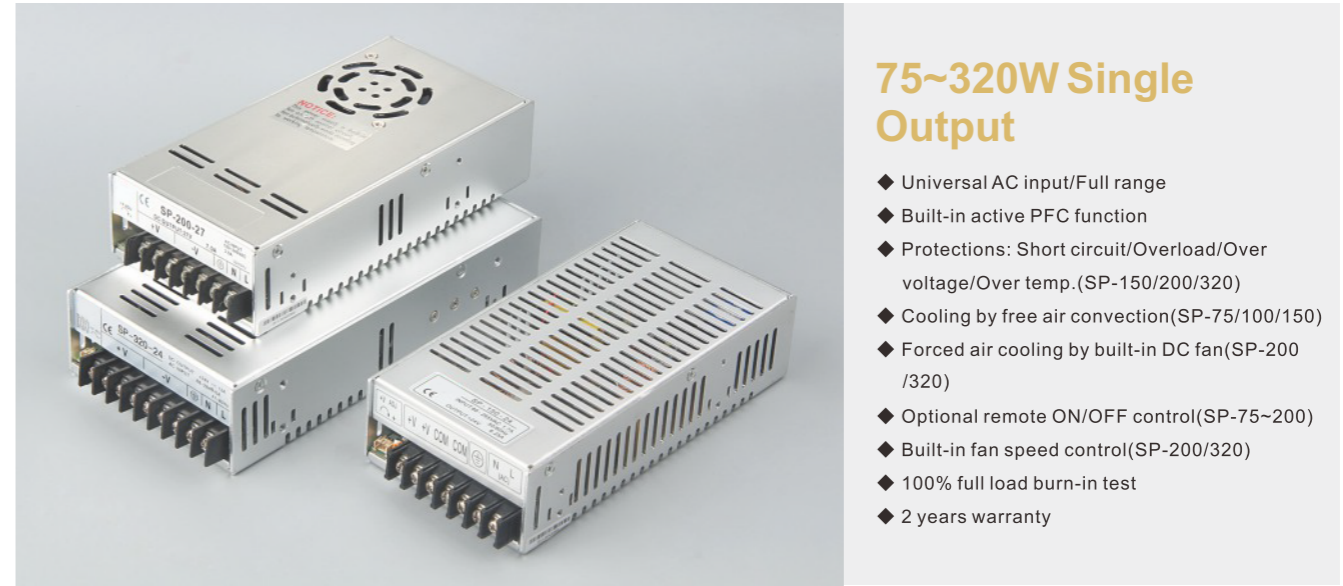
Model No.	Output	Tol.	R&N	Effi.
SV-3000-48	48V,0-60A	±0.5%	600mV	87%
SV-3000-110	110V,0-27.3A	±0.5%	900mV	89%

5000W-Single Output

Model No.	Output	Tol.	R&N	Effi.
SV-5000-30	30V,0-167A	±0.5%	400mV	86%
SV-5000-40	40V,0-120A	±0.5%	600mV	87%
SV-5000-110	110V,0-45A	±0.5%	1000mV	89%

6000W-Single Output

Model No.	Output	Tol.	R&N	Effi.
SV-6000-30	30V,0-200A	±0.5%	420mV	86%
SV-6000-60	60V,0-100A	±0.5%	800mV	87%
SV-6000-110	110V,0-54.5A	±0.5%	1000mV	89%



75~320W Single Output

- ◆ Universal AC input/Full range
- ◆ Built-in active PFC function
- ◆ Protections: Short circuit/Overload/Over voltage/Over temp.(SP-150/200/320)
- ◆ Cooling by free air convection(SP-75/100/150)
- ◆ Forced air cooling by built-in DC fan(SP-200 /320)
- ◆ Optional remote ON/OFF control(SP-75~200)
- ◆ Built-in fan speed control(SP-200/320)
- ◆ 100% full load burn-in test
- ◆ 2 years warranty

General Specification

Model No.	SP-75	SP-100	SP-150	SP-200	SP-320
AC input voltage range	85~264VAC, 120-370VDC				88~264VAC
AC inrush current(max.)	Cold start, 30A at 230VAC		Cold start, 40A at 230VAC		
DC adjustment range	-5~+10% rated output voltage				±10% rated output voltage
OLP	Range	105%~150%			105%~135%
	Type	Constant current, auto-recovery			Hiccup mode, auto-recovery
OLP	Range	115%~135%	110%~135%		115%~145%
	Type	Shut off, AC recycle to re-start			
Withstand voltage	I/P-O/P: 3KVAC, I/P-FG: 1.5KVAC, O/P-FG: 0.5KVAC, 1 minute				
Working temperature	-10~+60°C		-10~+50°C		-10~+60°C
Safety standards	UL60950-1, TUV EN60950-1 approved				
EMC standards	EN55022 class B, EN61000-4-2,3,4,5,6,8,11EN61000-3-2,3, ENV50204				
Connection	5P/9.5mm pitch	7P/9.5mm pitch terminal block with cover			9P/9.5mm pitch
Dimension(L*W*H)(mm)	179×99×33	179×99×45	199×99×50	199×99×50	215×115×50
Packing	0.62kg/pc	0.72kg/pc	0.83kg/pc	0.90kg/pc	1.17kg/pc

75W / SP-75

Model No.	Output	Tol.	R&N	Effi.
SP-75-3.3	3.3V, 0-15A	±2%	80mV	68%
SP-75-5	5V, 0-15A	±2%	80mV	72%
SP-75-7.5	7.5V, 0-10A	±2%	80mV	74%
SP-75-12	12V, 0-6.3A	±2%	80mV	77%
SP-75-13.5	13.5V, 0-5.6A	±2%	80mV	78%
SP-75-15	15V, 0-5.0A	±2%	80mV	79%
SP-72-24	24V, 0-3.2A	±1%	100mV	80%
SP-75-27	27V, 0-2.8A	±1%	100mV	80%
SP-75-48	48V, 0-1.6A	±1%	100mV	80%

100W / SP-100

Model No.	Output	Tol.	R&N	Effi.
SP-100-3.3	3.3V, 0-20.0A	±2%	100mV	70%
SP-100-5	5V, 0-20.0A	±2%	100mV	76%
SP-100-7.5	7.5V, 0-13.5A	±2%	100mV	78%
SP-100-12	12V, 0-8.50A	±2%	100mV	80%
SP-100-13.5	13.5V, 0-7.50A	±2%	100mV	80%
SP-100-15	15V, 0-6.70A	±2%	100mV	82%
SP-100-24	24V, 0-4.20A	±1%	150mV	84%
SP-100-27	27V, 0-3.80A	±1%	150mV	83%
SP-100-48	48V, 0-2.10A	±1%	250mV	82%

150W / SP-150

Model No.	Output	Tol.	R&N	Effi.
SP-150-3.3	3.3V, 0-30.0A	±2%	100mV	67%
SP-150-5	5V, 0-30.0A	±2%	100mV	75%
SP-150-7.5	7.5V, 0-20.0A	±2%	100mV	79%
SP-150-12	12V, 0-12.5A	±2%	100mV	80%
SP-150-13.5	13.5V, 0-11.2A	±2%	100mV	80%
SP-150-15	15V, 0-10.0A	±2%	100mV	81%
SP-150-24	24V, 0-6.30A	±1%	150mV	83%
SP-150-27	27V, 0-5.60A	±1%	150mV	84%
SP-150-48	48V, 0-3.20A	±1%	250mV	84%

200W / SP-200

Model No.	Output	Tol.	R&N	Effi.
SP-200-3.3	3.3V, 0-40.0A	±2%	100mV	65%
SP-200-5	5V, 0-40.0A	±2%	100mV	71%
SP-200-7.5	7.5V, 0-26.7A	±2%	100mV	76%
SP-200-12	12V, 0-16.7A	±2%	100mV	79%
SP-200-13.5	13.5V, 0-14.9A	±2%	100mV	80%
SP-200-15	15V, 0-13.4A	±2%	100mV	81%
SP-200-24	24V, 0-8.40A	±1%	150mV	83%
SP-200-27	27V, 0-7.50A	±1%	150mV	83%
SP-200-48	48V, 0-4.20A	±1%	250mV	84%

320W / SP-320

Model No.	Output	Tol.	R&N	Effi.
SP-320-3.3	3.3V, 0-60.0A	±1%	150mV	74%
SP-320-5	5V, 0-55.0A	±2%	150mV	79%
SP-320-7.5	7.5V, 0-40.0A	±2%	150mV	83%
SP-320-12	12V, 0-25.0A	±1%	150mV	86%
SP-320-13.5	13.5V, 0-22.0A	±1%	150mV	86%
SP-320-15	15V, 0-20.0A	±1%	150mV	86%
SP-320-24	24V, 0-13.0A	±1%	150mV	87%
SP-320-27	27V, 0-11.7A	±1%	200mV	88%
SP-320-36	36V, 0-8.80A	±1%	220mV	87%
SP-320-48	48V, 0-6.70A	±1%	240mV	89%

◆ SP-3250-5PNC model with conformal coating and high ambient temperature operation ability is suitable for LED moving sign applications.



500W Single Output

- ◆ Universal AC input / Full range
- ◆ Built-in active PFC function, PF>0.95
- ◆ Protections: Short circuit / Overload / Over voltage / Over temperature
- ◆ Forced air cooling by built-in DC fan
- ◆ Built-in remote Sense function and ON/OFF control
- ◆ 100% full load burn-in test
- ◆ 2 years warranty

General Specification

Model No.	SP-500	
AC input voltage range	88~264VAC	
AC inrush current (max.)	Cold Start, 36A at 230VAC	
DC adjustment range	±10% rated output voltage	
OLP	Range	105~135%
	Type	Fold block current limiting, auto-recovery
Over voltage protection	115~140% rated output voltage	
Withstand voltage	I/P - O/P: 3KVAC, I/P - FG: 1.5KVAC, O/P - FG: 0.5KVAC, 1 minute	
Working temperature	-10~+50°C	
Safety standards	U L60950-1, TUV EN65950-1 approved	
EMC standards	EN55022 class B, EN61000-4-2,3,4,5,6,8,11, EN61000-3-2,3, ENV50204, EN61000-6-2(SP-480 & SP-750)	
Connection	7+8P / 9.5mm Pitch terminal block with cover	
Dimension (L*W*H)(mm)	170×120×93	
Packing	1.94kg/pc	

500W/SP-500

Model No.	Output	Tol.	R&N	Effi.	Model No.	Output	Tol.	R&N	Effi.
SP-500-12	12V, 0-40A	±1%	240mV	84.0%	SP-500-24	24V, 0-20A	±1%	240mV	85.5%
SP-500-13.5	13.5V, 0-36A	±1%	240mV	84.0%	SP-500-27	27V, 0-18A	±1%	200mV	86.5%
SP-500-15	15V, 0-32A	±1%	240mV	83.0%	SP-500-48	48V, 0-10A	±1%	300mV	87.0%



75~200W Single Output

- ◆ Ultra low profile:30mm
- ◆ Universal AC input/ full range
- ◆ Built-in active PFC function
- ◆ Protections:Short circuit/Overload/Over voltage/Over temperature(RSP-100/150/200)
- ◆ Cooling by free air convection
- ◆ Built-in constant current limiting circuit (RSP-75/100/150)
- ◆ Remote ON/OFF control(RSP-75/100/150)
- ◆ LED indicator for power on

General Specification

Model No.	RSP-75	RSP-100	RSP-150	RSP-200	RSP-320	RSP-500
AC input voltage range	85~264VAC;120~370VAC					
AC inrush current (max.)	Cold start, 35A at 230VAC	30A at 230VAC	45A at 230VAC	88~264VAC;124~370VAC		85~264VAC;120~370VAC
DC adjustment range	-5%~+10% rated output voltage					
Overload Protection	Range	105%~135%				
	Type	Constant current limiting, recovers automatically after fault condition is removed				Hiccup mode, auto-recovery
Over voltage protection	Range	110%~135%				115%~145%
	Type	Shut down O/P voltage, re-power on to recover				
Withstand voltage	I/P-O/P:4kVAC, I/P-FG:2kVAC, O/P-FG:0.5kVAC			I/P-O/P:3kVAC, I/P-FG:2kVAC, O/P-FG:0.5kVAC		
Working temperature	-25~+70°C		-30~+70°C(refer to output derating curve)			
Safety standards	UL60950-1, TUV EN60950-1, EN61558-1, EN61558-2-16, CCC GB4943 approved; UL62368-1 approved for RSP-150 only.				UL60950-1, TUV EN60950-1, CCC GB4943 approved;	
EMC standards	EN55022 class B, EN61000-4-2,3,4,5,6,8,11, GB9254					
Connection	5P/9.5mm pitch terminal block	7P/9.5mm pitch terminal block			9P/9.5mm pitch terminal block	
Dimension (L*W*H)(mm)	159×97×30	179×99×30	199×99×30	215×115×30	215×115×30	230×127×40.5

75W-Single Output

Model No.	Output	Tol.	R&N	Effi.
RSP-75-3.3	3.3V,0~15A	±2%	80mV	76%
RSP-75-5	5V,0~15A	±2%	80mV	82%
RSP-75-7.5	7.5V,0~10A	±2%	80mV	84%
RSP-75-12	12V,0~6.3A	±2%	120mV	85%
RSP-75-13.5	13.5V,0~5.6A	±2%	120mV	85%
RSP-75-15	15V,0~5A	±2%	120mV	86%
RSP-75-24	24V,0~3.2A	±1%	120mV	87%
RSP-75-27	27V,0~2.8A	±1%	120mV	88%
RSP-75-48	48V,0~1.6A	±1%	200mV	89%

100W-Single Output

Model No.	Output	Tol.	R&N	Effi.
RSP-100-3.3	3.3V,0~20A	±2%	100mV	83%
RSP-100-5	5V,0~20A	±2%	100mV	86%
RSP-100-7.5	7.5V,0~13.5A	±2%	100mV	87%
RSP-100-12	12V,0~8.5A	±1%	100mV	86%
RSP-100-13.5	13.5V,0~7.5A	±1%	100mV	86.5%
RSP-100-15	15V,0~6.7A	±1%	100mV	87%
RSP-100-24	24V,0~4.2A	±1%	150mV	87%
RSP-100-27	27V,0~3.8A	±1%	150mV	87%
RSP-100-48	48V,0~2.1A	±1%	250mV	88%

150W-Single Output

Model No.	Output	Tol.	R&N	Effi.
RSP-150-3.3	3.3V,0~30A	±2%	100mV	81.5%
RSP-150-5	5V,0~30A	±2%	100mV	87%
RSP-150-7.5	7.5V,0~20A	±2%	100mV	88.5%
RSP-150-12	12V,0~12.5A	±2%	100mV	90%
RSP-150-13.5	13.5V,0~11.2A	±2%	100mV	87.5%
RSP-150-15	15V,0~10A	±2%	100mV	88.5%
RSP-150-24	24V,0~6.3A	±1%	150mV	89%
RSP-150-27	27V,0~5.6A	±1%	150mV	89.5%
RSP-150-48	48V,0~3.2A	±1%	250mV	90%

200W-Single Output

Model No.	Output	Tol.	R&N	Effi.
RSP-200-2.5	2.5V,0~40A	±2%	100mV	79.5%
RSP-200-3.3	3.3V,0~40A	±2%	100mV	81.5%
RSP-200-4	4V,0~40A	±2%	100mV	84%
RSP-200-5	5V,0~40A	±2%	150mV	85.5%
RSP-200-7.5	7.5V,0~26.7A	±2%	150mV	89%
RSP-200-12	12V,0~16.7A	±1%	150mV	89%
RSP-200-13.5	13.5V,0~14.9A	±1%	150mV	89%
RSP-200-15	15V,0~13.4A	±1%	150mV	89.5%
RSP-200-24	24V,0~8.4A	±1%	150mV	89.5%
RSP-200-27	27V,0~7.5A	±1%	200mV	89%
RSP-200-36	36V,0~5.56A	±1%	220mV	90%
RSP-200-48	48V,0~4.2A	±1%	240mV	90%

320W Single Output

Model No.	Output	Tol.	R&N	Effi.
RSP-320-2.5	2.5V,0~60A	±2%	100mV	75.5%
RSP-320-3.3	3.3V,0~60A	±2%	100mV	79.5%
RSP-320-4	4V,0~60A	±2%	100mV	81%
RSP-320-5	5V,0~60A	±2%	150mV	83%
RSP-320-7.5	7.5V,0~40A	±2%	150mV	88%
RSP-320-12	12V,0~26.7A	±1%	150mV	88%

500W Single Output

Model No.	Output	Tol.	R&N	Effi.
RSP-500-3.3	3.3V,0~90A	±2%	120mV	81%
RSP-500-4	4V,0~90A	±2%	120mV	83%
RSP-500-5	5V,0~90A	±2%	150mV	84%
RSP-500-12	12V,0~41.7A	±1%	150mV	88%
RSP-500-15	15V,0~33.4A	±1%	150mV	88%
RSP-500-24	24V,0~21A	±1%	150mV	89%
RSP-500-27	27V,0~18.6A	±1%	150mV	89.5%
RSP-500-48	48V,0~10.5A	±1%	150mV	90.5%



20~100W Miniature Single Output

- ◆ Universal AC input/Full range
- ◆ Installed on DIN rail TS35/7.5 or 15
- ◆ Protections: Short circuit/Overload/Over voltage
- ◆ No load power consumption <0.75W
- ◆ LED indicator for power on
- ◆ NEC class 2/LPS compliant (selected models)
- ◆ DC OK signal output(MDR-20)
- ◆ DC OK relay contact(MDR-40/60)
- ◆ Cooling by free air convection
- ◆ 100% full load burn-in test
- ◆ 2 years warranty

General Specification

Model No.	MDR-20	MDR-40	MDR-60	MDR-100
AC input voltage range	85~264VAC; 120~370VDC			
AC inrush current	Cold start, 20A at 115VAC, 40A at 230VAC	Cold start, 30A at 115VAC, 60A at 230VAC		
DC adjustment range	±10% rated output voltage		0~+20% rated output voltage	
Overload protection	105%~160% constant current limiting, auto-recovery		105%~150% constant current limiting, auto-recovery	
Over voltage protection	115%~135% rated output voltage		125%~150% rated output voltage	
Setup, rise, hold up time	500ms, 30ms, 50ms			3000ms, 50ms, 50ms
Withstand voltage	I/P-O/P:3KVAC, I/P-FG:2KVAC, 1minute			
Working temperature	-20~+70°C(refer to output derating curve)			
DC OK signal	Open collector		Relay contact	
Safety standards	UI508, TUV EN60950-1, UL60950-1(MDR-40/60) approved, NEC class 2 compliant(MDR-10/20, MDR-40-12/24/48, MDR-60-12/24/48, MDR-100-24/48)			
EMC standards	EN55022 class B, EN61000-3-2,-3, env50204, EN61000-4-2,3,4,5,6,8,11, EN61204-3, EN61000-6-2 heavy industry level(MDR-40/60/100)			
Connection	I/P: 3 poles, O/P:3 poles screw DIN terminal		I/P:3 poles,O/P:6 pole screw DIN terminal	
Dimension(L*W*H)(mm)	22.5×90×100	40×90×100	40×90×100	55×90×100
Packing	0.20kg/pc	0.26kg/pc	0.26kg/pc	0.45kg/pc

MDR-20 Series

Model No.	Output	Tol.	R&N	Effi.
MDR-20-5	5V, 0-3.0A	±2%	80mV	76%
MDR-20-12	12V, 0-1.67A	±1%	120mV	80%
MDR-20-15	15V, 0-1.34A	±1%	120mV	81%
MDR-20-24	24V, 0-1.00A	±1%	150mV	84%

MDR-40 Series

Model No.	Output	Tol.	R&N	Effi.
MDR-40-5	5V, 0-6.00A	±2%	80mV	78%
MDR-40-12	12V, 0-3.33A	±1%	120mV	86%
MDR-40-24	24V, 0-1.70A	±1%	150mV	88%
MDR-40-48	48V, 0-0.83A	±1%	200mV	88%

MDR-60 Series

Model No.	Output	Tol.	R&N	Effi.
MDR-60-5	5V, 0-10.0A	±2%	80mV	78%
MDR-60-12	12V, 0-5.00A	±1%	120mV	86%
MDR-60-24	24V, 0-2.50A	±1%	150mV	88%
MDR-60-48	48V, 0-1.25A	±1%	200mV	87%

MDR-100 Series

Model No.	Output	Tol.	R&N	Effi.
MDR-100-12	12V,0-7.5A	±1%	120mV	83%
MDR-100-24	24V,0-4A	±1%	150mV	86%
MDR-100-48	48V,0-2A	±1%	200mV	87%



15~100W Class II Single Output

- ◆ Isolation Class II
- ◆ Universal AC input/Full range
- ◆ Protections: Short circuit/Overload/ Over voltage
- ◆ Over temperature protection(DR-100)
- ◆ No load power consumption<1W (DR-100)
- ◆ Installed on DIN rail TS-35/7.5 or 15
- ◆ Cooling by free air convection
- ◆ LED indicator for power on
- ◆ 100% full load burn-in test
- ◆ 2 years warranty
- ◆ Suitable for building automation and control of household appliance

General Specification

Model No.	DR-15	DR-30	DR-60	DR-100
AC input voltage range	85~264VAC 120~370VDC		88-264VAC, 124-370VDC	
AC inrush current(max.)	Cold Start 65A/230VAC	Cold start, 30A at 230VAC	Cold start, 36A at 230VAC	Cold start, 45A at 230VAC
DC adjustment range	±10% rated output voltage			12V: 12-15V, 15V: 15-18V, 24V: 24-29V
OLP	Range	105%~160%		105%~135%
	Type	constant current limiting, auto-recovery		
OVP	Range	115%~135% rated output voltage		125%~155% rated output voltage
	Type	Shut off, re-power on to recover		
Withstand voltage	I/P-O/P: 3KVAC			
Working temperature	-20°C~+60°C(refer to output load derating curve)			
Vibration	10~500Hz, 2G 10 min./1 cycle, period for 60 min. each along X, Y, Z axes			
Safety standards	UL60950-1, TUV60950-1 approved			
EMC standards	EN55022 class B, EN6 1000-3-2,3, EN6 1000-6-2, EN61000-4-2,3,4,5,6,8,11, ENV50204, EN61204-3			
Connection	I/P: 2 poles, O/P: 4 poles screw DIN terminal			
Dimension(W*H*D)(mm)	25 x 93 x 56	78 x 93 x 56	78 x 93 x 56	100 x 93 x 56
Packing	0.1kg/pc	0.22kg/pc	0.25kg/pc	0.38kg/pc

DR-15 Series

Model No.	Output	Tol.	R&N	Effi.
DR-15-5	5V, 0~2.4A	±2%	80mV	77%
DR15-12	12V, 0~1.25A	±1%	120mV	84%
DR-15-15	15V, 0~1A	±1%	120mV	83.50%
DR-15-24	24V, 0~0.63A	±1%	150mV	85%

DR-30 Series

Model No.	Output	Tol.	R&N	Effi.
DR-30-5	5V, 0-3.0A	±2%	80mV	74%
DR-30-12	12V, 0-2.5A	±1%	120mV	81%
DR-30-15	15V, 0-2.0A	±1%	120mV	82%
DR-30-24	24V, 0-1.5A	±1%	150mV	83%

DR-60 Series

Model No.	Output	Tol.	R&N	Effi.
DR-60-5	5V, 0-6.5A	±2%	80mV	76%
DR-60-12	12V, 0-4.5A	±1%	120mV	82%
DR-60-15	15V, 0-4.0A	±1%	120mV	83%
DR-60-24	24V, 0-2.5A	±1%	150mV	84%

DR-100 Series

Model No.	Output	Tol.	R&N	Effi.
DR-100-12	12V, 0-7.5A	±2%	120mV	87%
DR-100-15	15V, 0-6.5A	±1%	120mV	87%
DR-100-24	24V, 0-4.2A	±1%	150mV	89%



45~480W Single Output

- ◆ Universal AC input/Full range(DR-45/75, DRP-240)
- ◆ AC input selectable by switch(DR-120, DRP-480S)
- ◆ AC input 180~264V only(DRP-480)
- ◆ Built-in passive PFC function compliance to EN61000-3-2(480W models)
- ◆ Protections: Short circuit/Overload/Over voltage/Over Temperature
- ◆ Cooling by free air convection
- ◆ Can be installed on DIN rail TS35/7.5 or 15
- ◆ UL508(industrial control equipment)listed
- ◆ 100% full load burn-in test
- ◆ LED indicator for power on
- ◆ 2 years warranty

General Specification

Model No.	DR-45	DR-75	DR-120	DRP-240	DRP-480
AC input voltage range	85~264VAC(DR-45/75, DRP-240); 90~132/180~264VAC selectable by switch(DR-120, DRP-480S); 180~264VAC only(DRP-480)				
AC inrush current(230VAC)	56A	40A		45A	40A
DC adjustment range	±10%		12V: 12~14V, 24V: 24~28V, 48V: 48~53V		
Overload protection	105%~150% constant current limiting, auto-recovery				
OVP	Range	115%~142% rated output voltage		30~36V for 24V model, 54~60V for 48V model	
	Type	Shut off, AC recycle to re-start			
Over temp. protection	Shut down output voltage, recovers automatically after temperature goes down				
Withstand voltage	I/P-O/P: 3KVAC, I/P-FG: 1.5KVAC, O/P-FG: 0.5KVAC, 1 minute				
Working temperature	-10°C~+50°C	-10°C~+60°C		-10°C~+70°C	-20°C~+70°C
Safety standards	UL508, TUV EN60950-1 approved (UL60950-1 also for DR-120, DRP-240, DRP-480)				
EMC standards	EN55022 class B, EN61000-3-2,3, ENV50204, EN61000-4-2,3,4,5,6,8,11, EN61000-6-2 heavy industry level				
Connection	I/P: 3 poles, O/P: 4 poles screw DIN terminal				
Dimension(W*H*D)(mm)	78 x 93 x 67	55.5 x 125.2 x 100	65.5 x 125.2 x 100	125.5 x 125.2 x 100	227 x 125.2 x 100
Packing	0.28kg/pc	0.54kg/pc	0.71kg/pc	1.1kg/pc	2.5kg/pc

DR-45 Series

Model No.	Output	Tol.	R&N	Effi.
DR-45-5	5V, 0-5.0A	±2%	100mV	72%
DR-45-12	12V, 0-3.5A	±1%	200mV	77%
DR-45-15	15V, 0-2.8A	±1%	240mV	77%
DR-45-24	24V, 0-2.0A	±1%	480mV	80%

DR-75 Series

Model No.	Output	Tol.	R&N	Effi.
DR-75-12	12V, 0-6.3A	±2%	100mV	76%
DR-75-24	24V, 0-3.2A	±1%	150mV	80%
DR-75-48	48V, 0-1.6A	±1%	240mV	81%

DR-120 Series

Model No.	Output	Tol.	R&N	Effi.
DR-120-12	12V, 0-10A	±2%	80mV	80%
DR-120-24	24V, 0-5.0A	±1%	80mV	84%
DR-120-48	48V, 0-2.5A	±1%	100mV	85%

DRP-240 Series

Model No.	Output	Tol.	R&N	Effi.
DRP-240-24	24V, 0-10A	±1%	80mV	84%
DRP-240-48	48V, 0-5.0A	±1%	150mV	85%

DRP-480 Series

Model No.	Output	Tol.	R&N	Effi.
DRP-480-24	24V, 0-20A	±1%	120mV	89%
DRP-480-48	48V, 0-10A	±1%	120mV	89%



75-480W Single Output Industrial

- ◆ Universal AC input / Full range
- ◆ Protections: Short circuit / Overload / Over voltage/ Over temperature
- ◆ Cooling by free air convection
- ◆ Can be installed on DIN rail TS-35/7.5 or 15
- ◆ UL 508 (industrial control equipment) approved
- ◆ EN61000-6-2(EN50082-2) industrial immunity level
- ◆ 100% full load burn-in test
- ◆ 2 years warranty



75-240W Single Output Industrial

- ◆ Universal AC input / Full range
- ◆ Protections: Short circuit / Overload / Over voltage/ Over temperature
- ◆ Cooling by free air convection
- ◆ Can be installed on DIN rail TS-35/7.5 or 15
- ◆ UL 508 (industrial control equipment) approved
- ◆ EN61000-6-2(EN50082-2) industrial immunity level
- ◆ 100% full load burn-in test
- ◆ 2 years warranty

General Specification

Model No.	NDR-75	NDR-120	NDR-240	NDR-480
AC input voltage range	90 ~ 264VAC 127 ~ 370VDC			176~264VAC 240~370VDC
AC inrush current(max.)	Cold start 20A/115VAC 35A/230VAC			Cold start 27A/115V 45A/230V
DC adjustment range	12 ~ 14V 24 ~ 28V 48 ~ 55V			21-28V 43-53V
OLP	Range	105 ~ 130% rated output power		105%~150%
	Type	Protection type : Constant current limiting, recovers automatically after fault condition is removed		
OVP	Range	14 ~ 17V 29 ~ 33V 56 ~ 65V		30-36V 54-60V
	Type	Protection type : Shut down o/p voltage, re-power on to recover		
Withstand voltage	I/P-O/P:3KVAC I/P-FG:2KVAC O/P-FG:0.5KVAC			I/P-O/P:3KVAC I/P-FG:1.5KVAC O/P-FG:0.5KVAC
Working temperature	-20 ~ +70°C (Refer to "Derating Curve")			
Vibration	Component:10 ~ 500Hz, 2G 10min./1cycle, 60min. each along X, Y, Z axes; Mounting: Compliance to IEC60068-2-6			
Safety standards	UI508, TUV EN62368-1, EAC TP TC 004, BSMI CNS14336-1 approved;(meet EN60204-1)			
EMC standards	Compliance to EN55032 (CISPR32), EN61204-3 Class B, EN61000-3-2,-3, EAC TP TC 020, CNS13438			
Connection	I/P: 3 poles, O/P: 4 poles screw DIN terminal			
Dimension(W*H*D)(mm)	32 x 125.2 x 102	40 x 125.2 x 113.5	63 x 125.2 x 113.5	125.5 x 125.2 x 100
Packing	0.51kg/pcs	0.6kg/pcs	1kg/pcs	1.3kg/pcs

NDR-75 Series

Model No.	Output	Tol.	R&N	Effi.
NDR-75-12	12V,0~6.3A	±2%	80mV	85.50%
NDR-75-24	24V,0~3.2A	±1%	120mV	88%
NDR-75-48	48V,0~1.6A	±1%	150mV	89%

NDR-120 Series

Model No.	Output	Tol.	R&N	Effi.
NDR-120-12	12V,0~10A	±2%	80mV	85.50%
NDR-120-24	24V,0~5A	±1%	120mV	88%
NDR-120-48	48V,0~2.5A	±1%	120mV	89%

NDR-240 Series

Model No.	Output	Tol.	R&N	Effi.
NDR-240-24	24V,0~10A	±1%	150mV	84%
NDR-240-48	48V,0~5A	±1%	150mV	85%

NDR-480 Series

Model No.	Output	Tol.	R&N	Effi.
NDR-480-24	24V,0~20A	±1%	240mV	84%
NDR-480-48	48V,0~10A	±1%	480mV	85%

General Specification

Model No.	EDR-75	EDR-120	EDR-150	EDR-240
AC input voltage range	85~264VAC 120~370VDC	90~264VAC 120~370VDC	176~264VAC 248~370VDC	176~264VAC 240~370VDC
AC inrush current(max.)	Cold start 20A/115VAC 40A/230VAC			Cold start 27A/115V 45A/230V
DC adjustment range	12-14V 24-28V 48-53V		10-15V 21-28V 43-53V	30-36V 54-60V
OLP	Range	105 ~ 150%	105 ~ 130%	105 ~ 150%
	Type	Constant current limiting, recovers automatically after fault condition is removed		
OVP	Range	14 ~ 17V 29 ~ 33V 56 ~ 65V		30-36V 54-60V
	Type	Shut down o/p voltage, re-power on to recover		
Withstand voltage	I/P-O/P: 3KVAC I/P-FG: 2KVAC O/P-FG: 0.5KVAC			I/P-O/P:3KVAC I/P-FG:1.5KVAC O/P-FG:0.5KVAC
Working temperature	-20 ~ +60°C (Refer to "Derating Curve")			
Vibration	Component:10 ~ 500Hz, 2G 10min./1cycle, 60min. each along X, Y, Z axes; Mounting: Compliance to IEC60068-2-6			
Safety standards	UI508, TUV EN62368-1 approved;(meet EN60204-1)			
EMC standards	Compliance to EN55032 (CISPR32) Class A, EN61000-3-2,-3, Class A			
Connection	I/P: 3 poles, O/P: 4 poles screw DIN terminal			
Dimension(W*H*D)(mm)	32 x 125.2 x 102	40 x 125.2 x 113.5	40 x 125.2 x 115	63 x 125.2 x 115
Packing	0.51kg/pcs	0.6kg/pcs	0.65kg/pcs	0.85kg/pcs

EDR-75 Series

Model No.	Output	Tol.	R&N	Effi.
EDR-75-12	12V,0~6.3A	±2%	100mV	83%
EDR-75-24	24V,0~3.2A	±1%	120mV	85%
EDR-75-48	48V,0~1.6A	±1%	150mV	86%

EDR-120 Series

Model No.	Output	Tol.	R&N	Effi.
EDR-120-12	12V,0~10A	±2%	100mV	85%
EDR-120-24	24V,0~5A	±1%	120mV	87.5%
EDR-120-48	48V,0~2.5A	±1%	150mV	88.5%

EDR-150 Series

Model No.	Output	Tol.	R&N	Effi.
EDR-150-12	12V,0~12A	±2%	100mV	82%
EDR-150-24	24V,0~6A	±1%	120mV	85%
EDR-150-48	48V,0~3A	±1%	150mV	87%

EDR-240 Series

Model No.	Output	Tol.	R&N	Effi.
EDR-240-24	24V,0~10A	±1%	240mV	84%
EDR-240-48	48V,0~5A	±1%	240mV	85%



15-480W DC-DC Converter

- ◆ 4:1 ultra wide input range
- ◆ -40~+85C wide working temperature
- ◆ No minimum load required
- ◆ DC output adjustable (±10%)
- ◆ Cooling by free air convection
- ◆ Can be installed on DIN rail TS-35/7.5 or 15
- ◆ Protections: Short circuit / Overload / Over voltage / Input reverse polarity / Input under voltage protection
- ◆ 4KVdc I/O isolation (Reinforced isolation)
- ◆ 2 years warranty



15-150W Ultra Slim Step Shape

- ◆ Ultra slim design
- ◆ Universal input 85~264VAC (277VAC operational)
- ◆ No load power consumption < 0.3W
- ◆ Isolation class II
- ◆ DC output voltage adjustable
- ◆ Protections: Short circuit / Overload / Over voltage
- ◆ Cooling by free air convection
- ◆ DIN rail TS-35/7.5 or 15 mountable
- ◆ Over voltage category III
- ◆ LED indicator for power on
- ◆ 2 years warranty

General Specification

Model No.	DDR-15	DDR-30	DDR-60	DDR-120	DDR-240	DDR-480
AC input voltage range	9~36Vdc					
AC inrush current(max.)	15A/24VDC		20A/24VDC	5A/12VDC	30A	
DC adjustment range	3.0-3.6V 4.5-5.5V 9-13.2V 13.5-16.5V 21.6-28V			9-14V 24-28V 48-56V		
OLP	Range	110 ~ 150% rated output power			105 ~ 135% rated output power	
	Type	Constant current limiting, recovers automatically after fault condition is removed				
OVP	Range	3.8-4.7V 5.75-7V 13.8-16.2V 17.25-20.25V 28.8-32.4V		14.4-16.8V 28.8-33.6V 57.6-67.2V	28.8-35V 57.6-65V	14.4-17.5V 28.8-35V 57.6-65V
	Type	Shut down o/p voltage, re-power on to recover				
Withstand voltage	I/P-O/P: 4KVAC		I/P-FG: 2.5KVAC	O/P-FG: 2.5KVAC	I/P-O/P: 4KVAC	I/P-FG: 2.5KVAC O/P-FG: 0.71KVAC
Working temperature	-40~+85°C (Refer to "Derating Curve")			-40~+70°C		-40~+80°C
Vibration	Component: 10 ~ 500Hz, 2G 10min./1cycle, 60min. each along X, Y, Z axes; Mounting: Compliance to IEC60068-2-6					
Safety standards	UL 62368-1, IEC 62368-1, approved					
EMC standards	Compliance to EN55032 (CISPR32) Class A, EN61000-3-2, -3, Class A					
Connection	I/P: 2 poles, O/P: 2 poles screw DIN terminal		I/P: 2 poles, O/P: 4 poles	I/P: 3 poles, O/P: 8 poles	I/P: 4 poles, O/P: 8 poles screw DIN terminal	
Dimension(W*H*D)(mm)	17.5 x 90 x 54.5	35 x 90 x 54.5	52.5 x 90 x 54.5	32 x 125.2 x 102	40 x 125.2 x 113.5	85.5 x 125.2 x 128.5
Packing	0.068kg/pcs	0.12kg/pcs	0.216kg/pcs	0.51kg/pcs	0.76kg/pcs	1.375kg/pcs

DDR-15 Series

Model No.	Output	Tol.	R&N	Effi.
DDR-15-3.3	3.3V, 0~3.5A	±2%	50mV	84%
DDR-15-5	5V, 0~3A	±2%	50mV	84%
DDR-15-12	12V, 0~1.25A	±2%	60mV	85%
DDR-15-15	15V, 0~1A	±2%	75mV	85%
DDR-15-24	24V, 0~0.63A	±2%	100mV	86%

DDR-30 Series

Model No.	Output	Tol.	R&N	Effi.
DDR-30-5	5V, 0~6A	±2%	60mV	85%
DDR-30-12	12V, 0~2.5A	±2%	75mV	86%
DDR-30-15	15V, 0~2A	±2%	75mV	87%
DDR-30-24	24V, 0~1.25A	±2%	100mV	89%

DDR-60 Series

Model No.	Output	Tol.	R&N	Effi.
DDR-60-5	5V, 0~10.8A	±2%	60mV	87.5%
DDR-60-12	12V, 0~5A	±2%	75mV	91%
DDR-60-15	15V, 0~4A	±2%	75mV	91%
DDR-60-24	24V, 0~2.5A	±2%	100mV	91%

DDR-120 Series

Model No.	Output	Tol.	R&N	Effi.
DDR-120-12	12V, 0~8.3A	±2%	50mV	88.5%
DDR-120-24	24V, 0~4.2A	±2%	50mV	88.5%
DDR-120-48	48V, 0~2.1A	±2%	50mV	88.5%

DDR-240 Series

Model No.	Output	Tol.	R&N	Effi.
DDR-240-24	24V, 0~5A	±1%	80mV	90%
DDR-240-48	48V, 0~4A	±1%	100mV	90%

DDR-480 Series

Model No.	Output	Tol.	R&N	Effi.
DDR-480-12	12V, 0~33.4A	±1%	100mV	90%
DDR-480-24	24V, 0~20A	±1%	120mV	91%
DDR-480-48	48V, 0~10A	±1%	150mV	90.5%

General Specification

Model No.	HDR-15	HDR-30	HDR-60	HDR-100	HDR-150
AC input voltage range	85 ~ 264VAC (277VAC operational)		120 ~ 370VDC (390VDC operational)		
AC inrush current(230VAC)	65A	30A	60A	70A	70A
DC adjustment range	4.75~26.4V		5~55.2V	12~55.2V	12~55.2V
Overload protection	105%~160% rated output power, Constant current limiting, recovers automatically after fault condition is removed				
OVP	Range	5.75-6.75V 14.2-16.2V 18.8-22.5V 30-36V 56.5-64.8V	14.2-16.2V 18.8-22.5V 30-36V 56.5-64.8V		
	Type	Shut down o/p voltage, re-power on to recover			
Over temp. protection	Shut down output voltage, recovers automatically after temperature goes down				
Withstand voltage	I/P-O/P: 3KVAC, I/P-FG: 1.5KVAC, O/P-FG: 0.5KVAC, 1 minute				
Working temperature	-30 +70°C (Refer to "Derating Curve") 20~90%RH Non-condensing				
Safety standards	UL62368-1, UL508, TUV EN61558-2-16, IEC62368-1, BSMI CNS14336-1 a EAC TP TC 004 approved; Design refer to TUV EN62368-1				
EMC standards	EN55032(CISPR32), CNS13438, EN61000-3-2, EN61000-3-2				
Connection	I/P: 2 poles, O/P: 2 poles screw DIN terminal		I/P: 2 poles, O/P: 4 poles screw DIN terminal		
Dimension(W*H*D)(mm)	17.5 x 90 x 54.5	35 x 90 x 54.5	52.5 x 90 x 54.5	70 x 90 x 54.5	105 x 90 x 54.5
Packing	78g/pcs	0.12kg/pcs	0.19kg/pcs	0.27kg/pcs	0.31kg/pcs

HDR-15 Series

Model No.	Output	Tol.	R&N	Effi.
HDR-15-5	5V, 0~2.4A	±2%	80mV	80%
HDR-15-12	12V, 0~1.25A	±1%	120mV	85%
HDR-15-15	15V, 0~1A	±1%	120mV	85.5%
HDR-15-24	24V, 0~0.63A	±1%	150mV	86%
HDR-15-48	48V, 0~0.32A	±1%	240mV	87%

HDR-30 Series

Model No.	Output	Tol.	R&N	Effi.
HDR-30-5	5V, 0~3A	±2%	80mV	82%
HDR-30-12	12V, 0~2A	±1%	120mV	88%
HDR-30-15	15V, 0~2A	±1%	120mV	89%
HDR-30-24	24V, 0~1.5A	±1%	150mV	89%
HDR-30-48	48V, 0~0.74A	±1%	240mV	90%

HDR-60 Series

Model No.	Output	Tol.	R&N	Effi.
HDR-60-5	5V, 0~6.5A	±2%	80mV	85%
HDR-60-12	12V, 0~4.5A	±1%	120mV	88%
HDR-60-15	15V, 0~4A	±1%	120mV	89%
HDR-60-24	24V, 0~2.5A	±1%	150mV	90%
HDR-60-48	48V, 0~1.25A	±1%	240mV	91%

HDR-100 Series

Model No.	Output	Tol.	R&N	Effi.
HDR-100-12	12V, 0~7.1A	±2%	120mV	88%
HDR-100-15	15V, 0~6.13A	±1%	120mV	89%
HDR-100-24	24V, 0~3.83A	±1%	150mV	90%
HDR-100-48	48V, 0~1.92A	±1%	240mV	90%

HDR-150 Series

Model No.	Output	Tol.	R&N	Effi.
HDR-150-12	12V, 0~10.2A	±2%	120mV	89%
HDR-150-15	15V, 0~8.55A	±1%	120mV	89.5%
HDR-150-24	24V, 0~5.31A	±1%	150mV	90.5%
HDR-150-48	48V, 0~2.72A	±1%	240mV	90.5%



35~60W Single Output Switching Power Supply With Charger

- ◆ Features: Universal AC input range
- ◆ Small volume, lightness, high efficiency
- ◆ Protections: Short circuit/ Overload
- ◆ Indicator for power on/charge/electric supply(LED)
- ◆ 100% full load burn-in test
- ◆ Battery protection at low voltage
- ◆ 2 years warranty



120W Single Output Switching Power Supply With Charger

- ◆ Features: AC input voltage range selected by switch.
- ◆ Small volume, lightness, high efficiency
- ◆ Protections: Short circuit/ Overload
- ◆ Indicator for power on/charge/normal(LED)
- ◆ 100% full load burn-in test
- ◆ Battery protection at low voltage
- ◆ 2 years warranty

General Specification

Model No.	SC-35	SC-60
AC input voltage range	90~264VAC 127~370VDC	
AC inrush current (max.)	Cold start 25A/115VAC 45A/230VAC	
Overload	Rated output power 110%~150% start over load protection Protection mode: AC Charging mode: hiccup mode auto-recovery after fault condition is removed	
Battery protection	9.5~11V 20~22V	
At low voltage	Protection mode: cut off the output voltage and current	
Withstand voltage	I/P-O/P: 3KVAC I/P-FG: 1.5KVAC O/P-FG: 0.5KVAC	
Working temperature	-10~+60°C, 20%~90%RH	
Safety standards	Compliance to UL60950-1	
EMC standards	Compliance to EN55022, CLASS B	
Dimension	110x78x36mm	129x98x38mm
Packing	0.3kg/50pcs/16kg/0.027m³/0.96CUFT	0.52kg/45pcs/24kg/0.034m³/1.2CUFT

35W-Single Output

Model No.	Output	Tol.	R&N	Effi.
SC-35-12	13.8V, 0-2A	±2%	120mV	71%
	13.4V, 0-0.5A			71%
SC-35-24	27.6V, 0-1A	±1%	200mV	74%
	26.5V, 0-0.3A			74%

60W-Single Output

Model No.	Output	Tol.	R&N	Effi.
SC-60-12	13.8V, 0-4A	±1%	120mV	71%
	13.4V, 0-0.35A			71%
SC-60-24	27.6V, 0-2A	±1%	240mV	74%
	26.5V, 0-0.25A			74%

General Specification

Model No.	SC-120
AC input voltage range	90~264VAC 127~370VDC
AC inrush current (max.)	Cold start 30A/115VAC 50A/230VAC
Overload	Above rated output power 110%~150% start over load protection Protection mode: AC Charging mode: hiccup mode auto-recovery after fault condition is removed
Battery protection	9.5~11V 20~22V
At low voltage	Protection mode: cutoff output
Withstand voltage	I/P-O/P: 3KVAC I/P-FG: 1.5KVAC O/P-FG: 0.5KVAC
Working temperature	-10~+60°C, 20%~90%RH
Safety standards	Compliance to UL60950-1
EMC standards	Compliance to EN55022, CLASS B
Dimension	159x97x38mm
Packing	0.56kg/45pcs/26kg/0.041m³/1.45CUFT

120W-Single Output

Model No.	Output	Tol.	R&N	Effi.
SC-120-12	13.8V, 0-8A	±1%	120mV	81%
	13.4V, 0-0.5A			81%
SC-120-24	27.6V, 0-4A	±1%	180mV	83%
	26.5V, 0-0.3A			83%



12W, 24W, Single Output With Battery Charger (UPS Function)

- ◆ Universal AC input / Full range
- ◆ Protections: Short circuit / Overload / Over voltage / Battery polarity (by fuse)
- ◆ Cooling by free air convection
- ◆ LED indicator for power on
- ◆ No load power consumption < 0.75W
- ◆ Temperature compensation function (by external thermistor)
- ◆ 100% full load burn-in test
- ◆ 2 years warranty

General Specification

Model No.	SC-180-12	SC-180-24
AC input voltage range	90~132VAC/180~264VAC 237/370VDC	
AC inrush current (max.)	Cold start current 30A/115VAC, 50A/230VAC	
Overload	Above rated output power 110%~150% start over load protection protection mode: AC charging mode: hiccup mode auto-recovery after fault condition is removed	
Battery protection	9.5~11V	20~22V
At low voltage	Protection mode: cutoff output	
Withstand voltage	I/P-O/P: 3KVAC I/P-FG: 1.5KVAC O/P-FG: 0.5KVAC	
Working temperature	-10~+60°C, 20%~90%RH	
Safety standards	Compliance to UL60950-1	
EMC standards	Compliance to EN55022, CLASS B	
Dimension	199×98×38mm	
Packing	0.6kg/45pcs/26kg/0.041m³/1.45CUFT	

120W-Single Output

Model No.	Output	Tol.	R&N	Effi.
SC-180-12	12V, 0-13.5A	±2%	120mV	81%
	13.8V, 0-1.5A			
SC-180-24	24V, 0-6.5A	±1%	180mV	83%
	27.6V, 0-1A			



35W, 50W, 75W, 120W Single Output With Battery Charger (UPS Function)

- ◆ Universal AC input / Full range
- ◆ Protections: Short circuit / Overload / Over voltage / Battery polarity (by fuse)
- ◆ Cooling by free air convection
- ◆ LED indicator for power on
- ◆ No load power consumption < 0.75W
- ◆ Temperature compensation function (by external thermistor)
- ◆ 100% full load burn-in test
- ◆ 2 years warranty

Model No.	SCP-35	SCP-50	SCP-75	SCP-120
AC input voltage range	85~264VAC/ 120~370VDC			
AC inrush current	Cold start, 45A			
DC adjustment range	95%~115% rated output voltage			
Overload protection	120%~165%, hiccup mode, auto-recovery			
Over Voltage protection	120%~140%, rated output voltage			
Setup, rise, hold up time	500ms, 1200ms, 50ms at full load and 230VAC			
Withstand voltage	I/P-O/P: 3kVAC, I/P-FG: 1.5kVAC, 1 minute			
Working temperature	-20~60°C (refer to output derating curve)			
Safety standards	UL60950-1 approved			
EMC standards	EN55022 class B, EN61000-3-2,3, EN61000-4-2,3,4,5,6,8,11, ENV50204, EN55024, EN61000-6-1			
Connection	I/P: 3 poles, O/P: 2 poles screw terminal			
Packing	0.37kg	0.45kg	0.5kg	

35/50/75 Series

Model No.	Output	Tol.	R&N	Effi.	Max.
SCP-35-12	13.8V, 0-2.6A	±2%	120mV	83%	36W
SCP-35-24	27.6V, 0-1.4A	±1%	200mV	86%	39W
SCP-50-12	13.8V, 0-3.6A	±2%	120mV	81%	50W
SCP-50-24	27.6V, 0-1.8A	±1%	200mV	85%	50W
SCP-75-12	13.8V, 0-5.4A	±2%	120mV	81%	75W
SCP-75-24	27.6V, 0-2.7A	±1%	200mV	85%	75W
SCP-120-12	13.8V, 0-8A	±2%	120mV	81%	117.1W
SCP-120-24	27.6V, 0-4A	±1%	180mV	83%	118.4W



55W 1~2 Output With Battery Charger

- ◆ Universal AC input / Full range
- ◆ Protections: Short circuit / Overload / Over voltage
- ◆ Battery low protection
- ◆ DC alarm signal (optional)
- ◆ Cooling by free air convection
- ◆ Fixed switching frequency at 45KHz
- ◆ 100% full load burn-in test
- ◆ 2 years warranty

Model No.	AD-55	ADD-55	ADS-55
AC input voltage range	88~264VAC; 124~370VDC		
AC inrush current	Cold start, 20A at 115VAC, 40A at 230VAC		
DC adjustment range	12V, 24V: ±10% 13.8V: 12~14.5V; 27.6V: 24~29V		
Overload protection	105~150% hiccup mode, auto-recovery		
Over voltage protection	CH1: 105~135% rated output voltage		
Setup, rise, hold up time	800ms, 50ms, 80ms at full load and 230VAC		
Withstand voltage	I/P-O/P: 3KVAC, I/P-FG: 1.5KVAC, 1 minute		
Working temperature	-10°C~60°C (refer to output derating curve)		
Safety standards	UL60950-1, TUV EN60950-1 approved		
EMC standards	EN55022 class B, EN61000-3-2,3, EN61000-4-2,3,4,5,6,8,11, ENV50204		
Connection	8P / 8.25mm pitch terminal block		
Packing	0.47kg/pc		

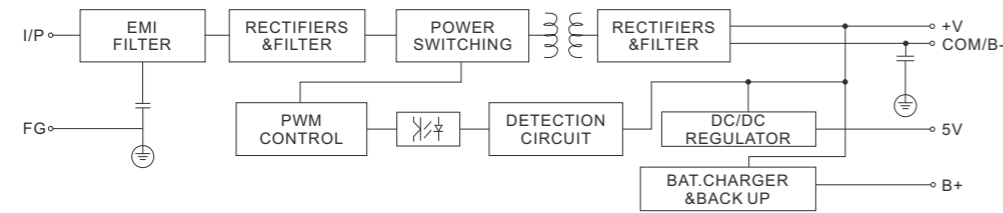
Single Output With Battery Charger(UPS Function) Dual Output with Battery Charger (UPS Function)

Model No.	Output	Tol.	R&N	Effi.	Max.	Model No.	Output	Tol.	R&N	Effi.	Max.
AD-55A	13.8V, 0-4.0A	±1%	100mV	71%	51W	ADD-55A	13.8V, 0-3.50A	±1%	100mV	71%	53W
	13.4V, 0-0.23A	(Charger)					13.4V, 0-0.23A	(Charger)			
AD-55B	27.6V, 0-2.0A	±1%	100mV	74%	54W	ADD-55B	27.6V, 0-2.00A	±1%	150mV	74%	55W
	26.5V, 0-0.16A	(Charger)					5V, 0-4.00A	±3%			

Single Output with 5V, 4A DC-DC Converter

Model No.	Output	Tol.	R&N	Effi.	Max.
ADS-5512	12V, 0-4.0A	±1%	100mV	76%	51W
	5V, 0-4.0A	±3%	100mV		
ADS-5524	24V, 0-2.5A	±1%	100mV	79%	58W
	5V, 0-4.0A	±3%	100mV		

Block Diagram



Single Output With Battery Charger(UPS Function) Dual Output with Battery Charger (UPS Function)

Model No.	Output	Tol.	R&N	Effi.	Max.	Model No.	Output	Tol.	R&N	Effi.	Max.
AD-155A	13.8V, 0-11.5A	±2%	150mV	80%	152W	ADD-155A	13.8V, 0-10.5A	±1%	150mV	78%	153W
	13.3V, 0-0.50A (Charger)	±3%					100mV				
AD-155B	27.6V, 0-5.50A	±1%	150mV	84%	152W	ADD-155B	27.6V, 0-5.00A	±1%	200mV	81%	153W
	27.1V, 0-0.50A (Charger)	±3%					100mV				
AD-155C	54.0V, 0-2.70A	±1%	240mV	84%	157W	ADD-155C	54.0V, 0-2.50A	±1%	240mV	81%	150W
	53.5V, 0-0.50A (Charger)	±5%					100mV				

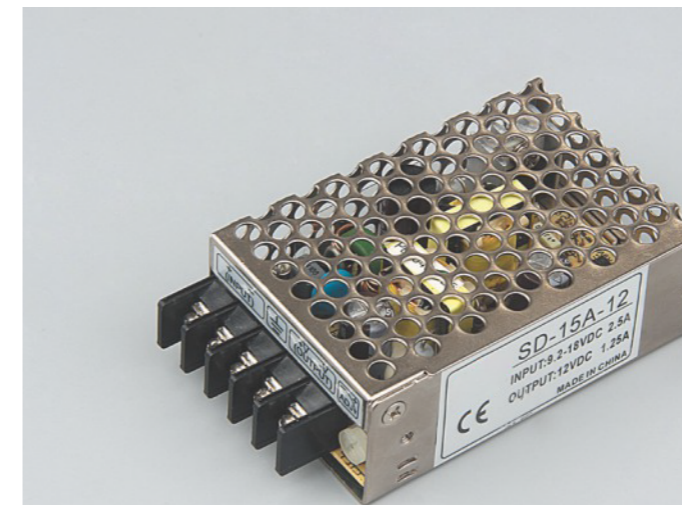
Single Output with 5V, 3A DC-DC Converter

Model No.	Output	Tol.	R&N	Effi.	Max.
ADS-15512	12V, 0-12.5A	±2%	150mV	77%	153W
	5V, 0-3.00A	±3%	100mV		
ADS-15524	24V, 0-6.50A	±1%	150mV	82%	154W
	5V, 0-3.00A	±3%	100mV		
ADS-15548	48V, 0-3.20A	±1%	240mV	82%	154W
	5V, 0-3.00A	±5%	100mV		



155W 1~2 Output With Battery Charger And PFC Function

- ◆ Universal AC input / Full range
- ◆ PF>0.92@230VAC and full load
- ◆ Protections: Short circuit / Overload / Over voltage
- ◆ Battery low and battery polarity protection
- ◆ Cooling by free air convection
- ◆ Fixed switching frequency at 134KHz
- ◆ 100% full load burn-in test
- ◆ 2 years warranty



15W Single Output DC-DC Converter

- ◆ 2:1 wide input range
- ◆ 2000VAC I/O isolation
- ◆ Cooling by free air convection
- ◆ Protections: Short circuit / Over load / Over voltage
- ◆ Built-in EMI filter, low ripple noise
- ◆ 100% full load burn-in test
- ◆ Low cost, high reliability
- ◆ 2 years warranty

Model No.	AD-155	ADD-155	ADS-155
AC input voltage range	88~264VAC; 124~370VDC		
AC inrush current	Cold start, 20A at 115VAC, 40A at 230VAC		
DC adjustment range	12V, 24V, 48V: ±10%		
	13.8V: 12~14.5V; 27.6V: 24~29V; 54V: 48-58V		
Overload protection	CH1, 2: 105~135%, charger: 0.51~0.9A; constant current limiting, auto-recovery		
Over voltage protection	CH1: 115~135% rated output voltage		
Setup, rise, hold up time	1000ms, 90ms, 24ms at full load and 230VAC		
Withstand voltage	I/P-O/P: 3KVAC, I/P-FG: 1.5KVAC, 1minute		
Working temperature	With fan: -10~50°C@100%, 60°C@80% load		
	Without fan: -10~50°C@70%, 60°C@50% load		
Safety standards	UL60950-1, TUV EN60950-1 approved		
EMC standard	EN55022 class B, EN61000-3-2,3,		
	EN61000-4-2,3,4,5,6,8,11, ENV50204		
Connection	8P / 9.5mm pitch terminal block		
Packing	0.72kg/pc		

Model No.	SD-15
DC adjustment range	5V: 4.75~5.5V, 12V: 10.8~13.2V, 24V: 21.6~26.4V
Line and load regulation	±0.5% (max.)
Overload protection	105%~160% hiccup mode, auto-recovery
Over voltage protection	115%~135% rated output voltage
Withstand voltage	I/P-O/P: 2.0KVAC, I/P-FG: 1.5KVAC, 1minute
Working temperature	0~40°C@100%, -10°C@80%, 60°C@60% load
Safety standard	Meet LVD
EMC standards	EN55022 class B, EN61000-4-2,3,4,6,8,
	ENV50204
Packing	0.34kg/pc

Model No.	Input	Output	R&N	Effi.
SD-15A-5	9.2-18V	5V, 0-3.0A	100mV	68%
SD-15A-12	9.2-18V	12V, 0-1.25A	120mV	72%
SD-15A-24	9.2-18V	24V, 0-0.625A	150mV	70%
SD-15B-5	18-36V	5V, 0-3.0A	100mV	76%
SD-15B-12	18-36V	12V, 0-1.25A	120mV	76%
SD-15B-24	18-36V	24V, 0-0.625A	150mV	77%
SD-15C-5	36-72V	5V, 0-3.0A	100mV	75%
SD-15C-12	36-72V	12V, 0-1.25A	120mV	79%
SD-15C-24	36-72V	24V, 0-0.625A	150mV	78%



25W Single Output DC-DC Converter

- ◆ 2:1 wide input range
- ◆ 1500VAC I/O isolation
- ◆ Protections: Short circuit / Over load / Over voltage
- ◆ Built-in EMI filter, low ripple noise
- ◆ 100% full load burn-in test
- ◆ Low cost, high reliability
- ◆ 2 years warranty

Model No.	SD-25
DC adjustment range	5V: 4.5~5.5V, 12V: 11~16V, 24V: 23~30V
Line and load regulation	±0.5% (max.)
Overload protection	105%~150% hiccup mode auto-recovery
Over voltage protection	115%~165% rated output voltage
Withstand voltage	I/P-O/P:2.0KVAC, I/P-FG:1.5KVAC, 1minute
Isolation resistance	100MΩ(min.) @500VDC
Working temperature	-10℃ to +60℃ (refer to output derating curve)
Safety standard	Meet LVD
EMC standards	EN55022 class B, EN61000-4-2,3,4,6,8, ENV50204
Packing	0.34kg/pc

Model No.	Input	Output	R&N	Effi.
SD-25A-5	9.2-18V	5V, 0-5.0A	100mV	71%
SD-25A-12	9.2-18V	12V, 0-2.1A	120mV	72%
SD-25A-24	9.2-18V	24V, 0-1.1A	150mV	75%
SD-25B-5	18-36V	5V, 0-5.0A	100mV	72%
SD-25B-12	18-36V	12V, 0-2.1A	120mV	75%
SD-25B-24	18-36V	24V, 0-1.1A	150mV	78%
SD-25C-5	36-72V	5V, 0-5.0A	100mV	74%
SD-25C-12	36-72V	12V, 0-2.1A	120mV	78%
SD-25C-24	36-72V	24V, 0-1.1A	150mV	81%
SD-25D-5	72-144V	5V, 0-5.0A	100mV	76%
SD-25D-12	72-144V	12V, 0-2.1A	120mV	80%
SD-25D-24	72-144V	24V, 0-1.1A	150mV	83%



50W Single Output DC-DC Converter

- ◆ 2:1 wide input range
- ◆ 1500VAC I/O isolation
- ◆ Protections: Short circuit / Over load / Over voltage
- ◆ Built-in EMI filter, low ripple noise
- ◆ Cooling by free air convection
- ◆ 100% full load burn-in test
- ◆ Low cost, high reliability
- ◆ 2 years warranty

Model No.	SD-50
DC adjustment range	5V: 4.5~5.5V, 12V: 11~16V, 24V: 23~30V
Line and load regulation	±0.5% (max.)
Overload protection	105%~150% hiccup mode auto-recovery
Over voltage protection	115%~165% rated output voltage
Withstand voltage	I/P-O/P:1.5KVAC, I/P-FG:1.5KVAC, 1minute
Isolation resistance	100MΩ(min.) @500VDC
Working temperature	-10℃ to +60℃ (refer to output derating curve)
Safety standard	Meet LVD
EMC standards	EN55022 class B, EN61000-4-2,3,4,6,8, ENV50204
Packing	0.36kg/pc

Model No.	Input	Output	R&N	Effi.
SD-50A-5	9.2-18V	5V, 0-10A	100mV	70%
SD-50A-12	9.2-18V	12V, 0-4.2A	120mV	72%
SD-50A-24	9.2-18V	24V, 0-2.1A	150mV	74%
SD-50B-5	19-36V	5V, 0-10A	100mV	73%
SD-50B-12	19-36V	12V, 0-4.2A	120mV	75%
SD-50B-24	19-36V	24V, 0-2.1A	150mV	80%
SD-50C-5	36-72V	5V, 0-10A	100mV	76%
SD-50C-12	36-72V	12V, 0-4.2A	120mV	78%
SD-50C-24	36-72V	24V, 0-2.1A	150mV	83%
SD-50D-5	72-144V	5V, 0-10A	100mV	76%
SD-50D-12	72-144V	12V, 0-4.2A	120mV	80%
SD-50D-24	72-144V	24V, 0-2.1A	150mV	83%



100W Single Output DC-DC Converter

- ◆ 2:1 wide input range
- ◆ 1500VAC I/O isolation
- ◆ Protections: Short circuit / Over load /Over voltage
- ◆ Built-in EMI filter, low ripple noise
- ◆ 100% full load burn-in test
- ◆ Low cost, high reliability
- ◆ 2 years warranty

Model No.	SD-100
DC adjustment range	5V: 4.5-5.5V, 12V: 11~16V, 24V: 23~30V
Line regulation	±0.5% (max.)
Load regulation	±0.5% (max.)
Overload protection	105%~135% fold back current limiting, auto-recovery
Over voltage protection	115%~165% rated output voltage
Withstand voltage	I/P-O/P:1.5KVAC, I/P-FG:1.5KVAC, 1minute
Isolation resistance	100MΩ(min.) @500VDC
Working temperature	-10℃ to +60℃ (refer to output derating curve)
Safety standard	Meet LVD, EN60950-1
EMC standards	EN55022 class B, EN61000-4-2,3,4,6,8
Packing	0.50kg/pc

Model No.	Input	Output	R&N	Effi.
SD-100B-5	19-36V	5V, 0-20A	100mV	74%
SD-100B-12	19-36V	12V, 0-8.5A	120mV	75%
SD-100B-24	19-36V	24V, 0-4.2A	150mV	78%
SD-100C-5	36-72V	5V, 0-20A	100mV	75%
SD-100C-12	36-72V	12V, 0-8.5A	120mV	77%
SD-100C-24	36-72V	24V, 0-4.2A	150mV	81%
SD-100D-5	72-144V	5V, 0-20A	100mV	76%
SD-100D-12	72-144V	12V, 0-8.5A	120mV	80%
SD-100D-24	72-144V	24V, 0-4.2A	150mV	83%



150W Single Output DC-DC Converter

- ◆ 2:1 wide input range
- ◆ 1500VAC I/O isolation
- ◆ Protections: Short circuit / Over load /Over voltage
- ◆ Built-in EMI filter, low ripple noise
- ◆ Cooling by free air convection
- ◆ 100% full load burn-in test
- ◆ Low cost, high reliability
- ◆ 2 years warranty

Model No.	SD-150
DC adjustment range	12V: 11~16V, 24V: 23~30V
Line regulation	±0.5% (max.)
Load regulation	±0.5% (max.)
Overload protection	105%~135% fold back current limiting, auto-recovery
Over voltage protection	130%~165% rated output voltage
Withstand voltage	I/P-O/P:1.5KVAC, I/P-FG:1.5KVAC, 1minute
Isolation resistance	100MΩ(min.) @500VDC
Working temperature	-10℃~+60℃ (refer to output derating curve)
Safety standards	Meet LVD, EN60950-1 CB
EMC standards	EN55022 class B, EN61000-4-2,3,4,6,8
Packing	0.61kg/pc

Model No.	Input	Output	R&N	Effi.
SD-150B-12	19-36V	12V, 0-12.5A	120mV	75%
SD-150B-24	19-36V	24V, 0-6.3A	150mV	77%
SD-150C-12	36-72V	12V, 0-12.5A	120mV	77%
SD-150C-24	36-72V	24V, 0-6.3A	150mV	80%
SD-150D-12	72-144V	12V, 0-12.5A	120mV	79%
SD-150D-24	72-144V	24V, 0-6.3A	150mV	82%



200W Single Output DC-DC Converter

- ◆ 2:1 wide input range
- ◆ 1500VAC I/O isolation
- ◆ Protections: Short circuit / Over load /Over voltage / Over temp.
- ◆ Cooling by free air convection
- ◆ 100% full load burn-in test
- ◆ 2 years warranty

Model No.	SD-200
DC adjustment range	5V:4.5~5.5V, 12V: 11~16V, 24V: 23~30V,48V: 43~53V
Voltage tolerance	±2% (max.)
Overload protection	105%~135% shut off, re-power on to recover
Over voltage protection	110%~167% rated output voltage
Withstand voltage	I/P-O/P:1.5KVAC, I/P-FG:0.5KVAC, 1minute
Working temperature	-20℃ to +60℃ (refer to output derating curve)
Safety standards	Meet LVD, EN60950-1
EMC standards	EN55022 class B, EN61000-4-2,3,4,6,8
Packing	0.81kg/pc

Model No.	Input	Output	R&N	Effi.
SD-200B-5	19-36V	5V, 0-34.0A	100mV	79%
SD-200B-12	19-36V	12V, 0-16.7A	120mV	82%
SD-200B-24	19-36V	24V, 0-8.40A	150mV	85%
SD-200B-48	19-36V	48V, 0-4.20A	200mV	86%
SD-200C-5	36-72V	5V, 0-40.0A	100mV	81%
SD-200C-12	36-72V	12V, 0-16.7A	120mV	84%
SD-200C-24	36-72V	24V, 0-8.40A	150mV	86%
SD-200C-48	36-72V	48V, 0-4.20A	200mV	86%
SD-200D-5	72-144V	5V, 0-40.0A	100mV	82%
SD-200D-12	72-144V	12V, 0-16.7A	120mV	82%
SD-200D-24	72-144V	24V, 0-8.40A	150mV	84%
SD-200D-48	72-144V	48V, 0-4.20A	200mV	90%



350W Single Output DC-DC Converter

- ◆ 2:1 wide input range
- ◆ 1500VAC I/O isolation
- ◆ Protections: Short circuit / Over load / Over voltage / Over temp.
- ◆ Forced air cooling by built-in DC fan
- ◆ 100% full load burn-in test
- ◆ 2 years warranty

Model No.	SD-350
DC adjustment range	5V:4.5~5.5V, 12V: 11~16V, 24V: 23~30V,48V: 43~53V
Voltage tolerance	±2% (max.)
Overload protection	105%~135% shut off,re-power on to recover
Over voltage protection	110%~167% rated output voltage
Withstand voltage	I/P-O/P:1.5KVAC,I/P-FG:1.5KVAC,1minute
Working temperature	-20°C to +60°C (refer to output derating curve)
Safety standard	Meet LVD, EN60950-1 CB approved by TUV(D type only)
EMC standards	EN55022 class B, EN61000-4-2,3,4,6,8
Packing	1.0kg/pc

Model No.	Input	Output	R&N	Effi.
SD-350B-5	19-36V	5V, 0-57.0A	100mV	74%
SD-350B-12	19-36V	12V, 0-27.5A	120mV	80%
SD-350B-24	19-36V	24V, 0-14.6A	150mV	80%
SD-350B-48	19-36V	48V, 0-7.30A	200mV	84%
SD-350C-5	36-72V	5V, 0-60.0A	100mV	76%
SD-350C-12	36-72V	12V, 0-27.5A	120mV	81%
SD-350C-24	36-72V	24V, 0-14.6A	150mV	81%
SD-350C-48	36-72V	48V, 0-7.30A	200mV	82%
SD-350D-5	72-144V	5V, 0-60.0A	100mV	78%
SD-350D-12	72-144V	12V, 0-29.2A	120mV	83%
SD-350D-24	72-144V	24V, 0-14.6A	150mV	87%
SD-350D-48	72-144V	48V, 0-7.30A	200mV	89%



500W Single Output DC-DC Converter

- ◆ DC input active surge current limiting
- ◆ Wide 4:1~2:1 DC input range (24V: 19~72VDC, 96V:72~144VDC)
- ◆ Protections: Short circuit / Overload / Over voltage / Over temperature / Input polarity(by fuse)
- ◆ 2000VAC / 0 Isolation
- ◆ Forced air cooling by builtin DC fan with fan speed control function
- ◆ Output OK Signal
- ◆ Built-in remote ON-OFF control
- ◆ Built-in remote sense function
- ◆ 2 years warranty

Model No.	SD-500
DC adjustment range	12V:11~15V 24V:23~30V 48V:46~60V
Line regulation	±0.5% (max.)
Load regulation	±0.5% (max.)
Overload protection	105%~ 125% fold back current limiting, auto-recovery
Over voltage protection	130%~165% rated output voltage
Withstand voltage	I/P-O/P:2KVAC I/P-FG:2KVAC O/P-FG:0.5KVAC
Isolation resistance	I/P-O/P, I/P-FG, O/P-FG:100M Ohms / 500VDC / 25°C/ 70% RH
Working temperature	-20~ +60°C(Refer to "Derating Curve")
Safety standards	IEC62368-1,TUV EN62368-1, EAC TP TC 004 approved
EMC standards	EN55032 (CISPR32) Class B,EN61000-4-2,3,4,6,8
Packing	1.15kg/Pcs

Model No.	Input	Output	R&N	Effi.
SD-500L-12	19~72VDC	12V;0~40A	150mV	86%
SD-500L-24	19~72VDC	24V;0~21A	150mV	88%
SD-500L-48	19~72VDC	48V;0~10.5A	150mV	89%
SD-500H-12	72~144VDC	12V;0~40A	150mV	87%
SD-500H-24	72~144VDC	24V;0~21A	150mV	89%
SD-500H-48	72~144VDC	48V;0~10.5A	150mV	90%



200W Single Output Switching Power Supply

- ◆ AC input 180~264VAC
- ◆ Withstand 300VAC surge input for 5 seconds
- ◆ Design against rain splash
- ◆ Protections: Short circuit/Overload/Over voltage/ Over temperature
- ◆ Cooling by free air convection
- ◆ LED indicator for power on
- ◆ Low cost,high reliability
- ◆ 100% full load burn-in test
- ◆ 2 years warranty

Model No.	ERP-200
DC adjustment range	12V:10.8-13.2V 24V:21.6~26.4V
Line regulation	±0.5% (max.)
Load regulation	±0.5% (max.)
Overload protection	110%~ 140% Rated output power
Over voltage protection	12V:13.8-16.2V 24V:27.6-32.4V
Withstand voltage	I/P-O/P:3KVAC I/P-FG:2KVAC O/P-FG:0.5KVAC
Isolation resistance	I/P-O/P, I/P-FG, O/P-FG:100M Ohms / 500VDC / 25°C/ 70% RH
Working temperature	-30~ +60°C(Refer to "Derating Curve")
Safety standards	IEC62368-1,TUV EN61000-4-5, EAC TP TC 020 approved
EMC standards	En55022 (CISPR22) Class A,light industry level,criteria A
Packing	0.86kg/Pcs

Model No.	Input	Output	R&N	Effi.
ERP-200-12	254-370VDC	12V;0~16.8A	150mV	87%
ERP-200-24	254-370VDC	24V;0~8.33A	150mV	89%



18~250W Single Output Class 2 Power Unit

- ◆ 180~264VAC input only
- ◆ Fully isolated metal case
- ◆ Protections: Short circuit / Overload / Over voltage
- ◆ Over temperature protection
- ◆ IP67 design
- ◆ Withstand 300VAC surge input for 5 seconds
- ◆ Two wire input style, no F.G.
- ◆ Cooling by free air convection
- ◆ 100% full load burn-in test
- ◆ Low cost, high reliability
- ◆ Suitable for LED lighting and moving sign applications
- ◆ 2 years warranty

General Specification

Model No.	LDV-18	LDV-30	LDV-50	LDV-60	LDV-100	LDV-150	LDV-200	LDV-250
AC input voltage range	180~264VAC							
AC inrush current (max.)	Cold start, 40A at 230VAC							
Overload	Range	>105%						
	Type	Hiccup mode, auto-recovery						
Over voltage protection	115~135% rated output voltage							
Withstand voltage	I/P-O/P: 3KVAC							
Working temperature	-30~+70°C (refer to output derating curve)							
Vibration	10~500Hz, 5G 10min/1 cycle, period for 60 min each along X, Y, Z axes							
Safety standards	Design refer to UL1310 class 2, TUV EN60950-1, EN61347-2-13							
EMC standards	EN55022 class B, EN61000-3-2,3, EN61000-4-2,3,4,5,6,8,11, ENV50204							
Connection (Input/Output)	UL rated, 18AWGx2C (30cm)							
Dimension (L*W*H)(mm)	182×30×20	213×38×21	191×49×35	190×49×35	221×44×69	242×67×44	242×67×44	230×125×55
Packing	0.2kg/pc	0.22kg/pc	0.56kg/pc	0.48kg/pc	1.09kg/pc	1.23kg/pc	2.132kg/pc	2.42kg/pc

18W (C.V. mode)/LDV-18

Model No.	Output	Tol.	R&N	Effi.
LDV-18-5	5V, 0-3.0A	±5%	80mV	77%
LDV-18-12	12V, 0-1.60A	±5%	120mV	81%
LDV-18-24	24V, 0-0.8A	±5%	120mV	83%
LDV-18-48	48V, 0-0.4A	±5%	120mV	83%

30W (C.V. mode)/LDV-30

Model No.	Output	Tol.	R&N	Effi.
LDV-30-5	5V, 0-6.0A	±5%	80mV	77%
LDV-30-12	12V, 0-2.5A	±5%	120mV	81%
LDV-30-24	24V, 0-1.25A	±5%	120mV	83%
LDV-30-48	48V, 0-0.65A	±5%	120mV	83%

50W (C.V. mode)/LDV-50

Model No.	Output	Tol.	R&N	Effi.
LDV-50-5	5V, 0-10.0A	±5%	80mV	77%
LDV-50-12	12V, 0-4.2A	±5%	120mV	81%
LDV-50-24	24V, 0-2.1A	±5%	120mV	83%
LDV-50-48	48V, 0-1.0A	±5%	120mV	83%

60W (C.V. mode)/LDV-60

Model No.	Output	Tol.	R&N	Effi.
LDV-60-5	5V, 0-12.0A	±5%	80mV	77%
LDV-60-12	12V, 0-5.0A	±5%	120mV	81%
LDV-60-24	24V, 0-2.5A	±5%	120mV	83%
LDV-60-48	48V, 0-1.2A	±5%	120mV	83%

100W (C.V. mode)/LDV-100

Model No.	Output	Tol.	R&N	Effi.
LDV-100-5	5V, 0-20.0A	±5%	80mV	77%
LDV-100-12	12V, 0-8.3A	±5%	120mV	81%
LDV-100-24	24V, 0-4.5A	±5%	120mV	83%
LDV-100-48	48V, 0-2.1A	±5%	120mV	83%

150W (C.V. mode)/LDV-150

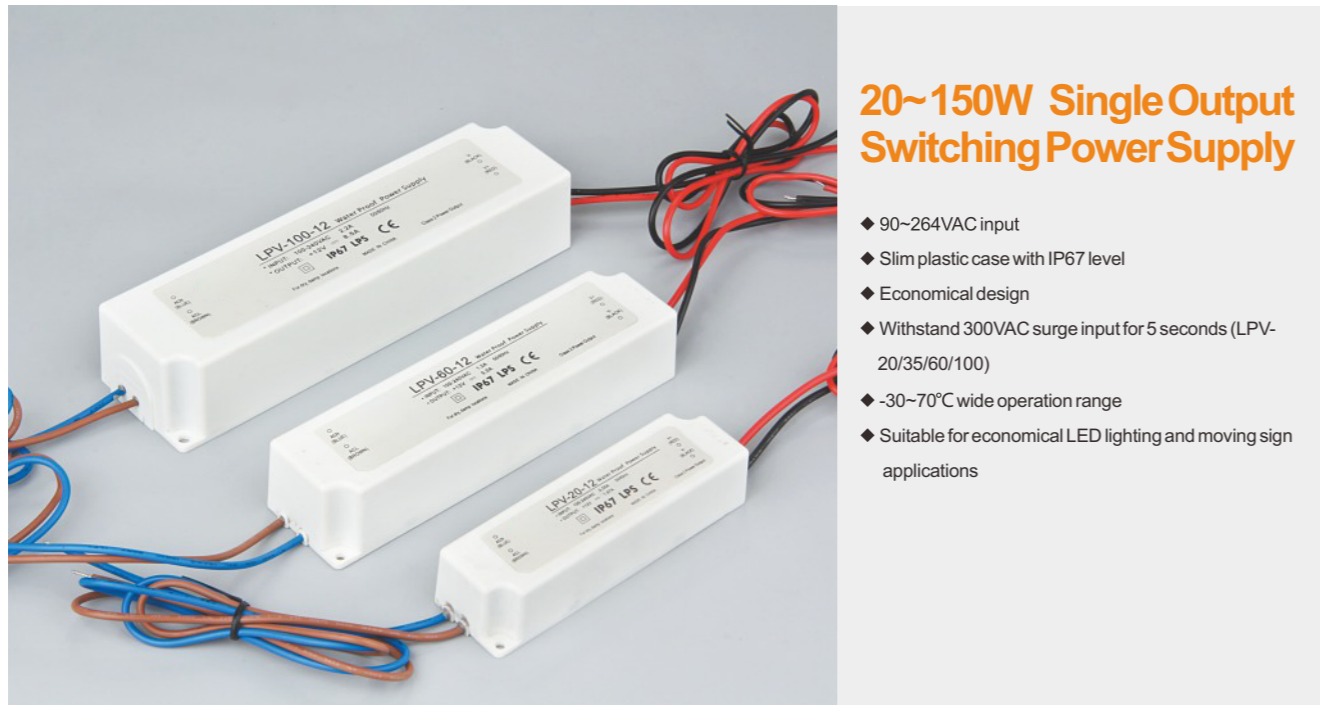
Model No.	Output	Tol.	R&N	Effi.
LDV-150-12	12V, 0-12.0A	±5%	80mV	77%
LDV-150-24	24V, 0-6.0A	±5%	120mV	81%
LDV-150-48	48V, 0-3.0A	±5%	120mV	83%

200W (C.V. mode)/LDV-200

Model No.	Output	Tol.	R&N	Effi.
LDV-200-12	12V, 0-16.7A	±5%	80mV	77%
LDV-200-24	24V, 0-8.5A	±5%	120mV	81%
LDV-200-48	48V, 0-4.2A	±5%	120mV	83%

250W (C.V. mode)/LDV-250

Model No.	Output	Tol.	R&N	Effi.
LDV-250-12	12V, 0-20.0A	±5%	80mV	77%
LDV-250-24	24V, 0-10.0A	±5%	120mV	81%
LDV-250-48	48V, 0-5.0A	±5%	120mV	83%



20~150W Single Output Switching Power Supply

- ◆ 90~264VAC input
- ◆ Slim plastic case with IP67 level
- ◆ Economical design
- ◆ Withstand 300VAC surge input for 5 seconds (LPV-20/35/60/100)
- ◆ -30~70°C wide operation range
- ◆ Suitable for economical LED lighting and moving sign applications

General Specification

Model No.	LPV-20	LPV-35	LPV-60	LPV-100	LPV-150
AC input voltage range	90~264VAC 127~370VDC				180~305VAC 254~431VDC
AC inrush current (max.)	Cold start 70A(twidth=215s, measured at 50% Ipeak) at 230VAC	Cold start 55A(twidth=510 s measured at 50% Ipeak) at 230VAC	Cold start 60A(twidth=525 s measured at 50% Ipeak) at 230VAC	Cold start 75A(twidth=700 s measured at 50% Ipeak) at 230VAC	Cold start 60A(twidth=900 s measured at 50% Ipeak) at 230VAC
Overload	110 ~ 150% rated power (LPV-20) 110 ~ 150% rated output power (LPV-35/60/100/150) Protection type : Shut down o/p voltage, recovers automatically after fault condition is removed (LPV-20) Protection type : Hiccup mode, recovers automatically after fault condition is removed (LPV-35/60/100/150)				
Over voltage	5.75~6.75V 13.8~16V 17.5~21V 28~32V (LPV-20) 5.75~6.75V 13.8~16V 17.25~20.25 27.6~32.4V 41.4~48.6V (LPV-35) 5.75~6.75V 13.8~16V 17.25~20.25 27.6~32.4V 41.4~48.6V 55.2~64.8V (LPV-60/100) 13.5~18V 17~25V 27~35V 40~49V 52~63V (LPV-150) Protection type : Shut off o/p voltage, clamping by zener diode(LPV-20) Protection type : Shut down o/p voltage, re-power on to recover(LPV-35/60/100/150)				
Working humidity	20~90% RH non-condensing				
Storage temp., humidity	-40~+80°C, 10~95%RH°C				
Temp. coefficient	±0.03%/°C(0~50°C) ±0.03%/°C(0~45°C) ±0.03%/°C(0~50°C) ±0.03%/°C(0~50°C) ±0.03%/°C(0~40°C for LPV-150-12,15;0~50°C for LPV-150-24,36,48)				
Vibration	10~500Hz, 2G 10min./1cycle, period for 60min. each along X, Y, Z axes				
Safety standards	Design refer to UL879, UL1310, CSA C22.2 No.207-M89, CAN/CSA C22.2 No.223-M91, TUV E60950-1, IP67 Approved(LPV-20) UL1310 class 2, CAN/CSA No.223-M91, CB IEC61347-2-13, IP67 approved, design refer to TUV EN60950-1(LPV-35) UL897(expect for LPV-60-5), UL1310(expect for LPV-60-5), CSA C22.2 No.207-M91(expect for LPV-60-5, LPV-60-48), IP67, IEC60950-1:2005, A2 2013 approved design refer to TUV EN60950-1(LPV-60) UL8750, CSA C22.2 No250 13-12, UL879 CSA C22.2 No.207-M89, IP67 approved, design refer to EN60950-1(LPV-100/150)				
Withstand voltage	I/P-O/P:3KVAC				
Isolation resistance	I/P-O/P:>100M Ohms / 500VDC / 25°C / 70% RH				
EMC emission	Compliance to EN55022 (CISPR22) Class B, EN61000-3-2 Class A, EN61000-3-3				
EMC immunity	Compliance to EN61000-4-2, 3, 4, 5, 6, 8, 11, EN55024, light industry level, criteria A				
Dimension(L*W*H)(mm)	118×35×26	148×40×30	162.5×42.5×32	190×52×37	191×37×37.5

20W-Single Output

Model No.	Output	Tol.	R&N	Effi.
LPV-20-5	5V,0-3A	±5%	80mV	77%
LPV-20-12	12V,0-1.67A	±5%	120mV	81%
LPV-20-15	15V,0-1.33A	±5%	120mV	83%
LPV-20-24	24V,0-0.84A	±5%	150mV	83%

35W-Single Output

Model No.	Output	Tol.	R&N	Effi.
LPV-35-5	5V,0-6A	±6%	80mV	77%
LPV-35-12	12V,0-3A	±5%	120mV	84%
LPV-35-15	15V,0-2.4A	±5%	120mV	84%
LPV-35-24	24V,0-1.5A	±5%	150mV	85%
LPV-35-36	36V,0-1A	±5%	150mV	85%

60W-Single Output

Model No.	Output	Tol.	R&N	Effi.
LPV-60-5	5V,0-8A	±8%	80mV	76%
LPV-60-12	12V,0-5A	±5%	120mV	83%
LPV-60-15	15V,0-4A	±5%	120mV	83%
LPV-60-24	24V,0-2.5A	±5%	150mV	86%
LPV-60-36	36V,0-1.67A	±5%	150mV	86%
LPV-60-48	48V,0-1.25A	±5%	150mV	86%

100W-Single Output

Model No.	Output	Tol.	R&N	Effi.
LPV-100-5	5V,0-12A	±8%	80mV	80%
LPV-100-12	12V,0-8.5A	±5%	120mV	85%
LPV-100-15	15V,0-6.7A	±5%	120mV	87%
LPV-100-24	24V,0-4.2A	±5%	150mV	88%
LPV-100-36	36V,0-2.8A	±5%	150mV	88%
LPV-100-48	48V,0-2.1A	±5%	150mV	89%

150W-Single Output

Model No.	Output	Tol.	R&N	Effi.
LPV-150-12	12V,0-10A	±5%	200mV	87%
LPV-150-15	15V,0-8A	±5%	200mV	88%
LPV-150-24	24V,0-6.3A	±5%	200mV	89%
LPV-150-36	36V,0-4.2A	±5%	200mV	89%
LPV-150-48	48V,0-3.2A	±5%	200mV	90%



40W-320W Constant Voltage+ Constant Current LED Driver

- ◆ 90~305VAC input, built-in active PFC function
- ◆ 90.5% high efficiency
- ◆ Metal case, IP67/IP65 design for indoor or outdoor installations
- ◆ Built-in 3 in 1 dimming function (1~10VDC, PWM signal or resistance) for B type
- ◆ Type "HL" LED drivers for use in Class I, Division 2 hazardous (Classified) location luminaires
- ◆ Suitable for LED street lighting, outdoor LED lighting and general outdoor applications with high IP requirement
- ◆ P68/-55°C startup/10G vibration options available

General Specification

Model No.	HLG-40H	HLG-60H	HLG-80H	HLG-100H
AC input voltage range	90~305VAC 127~431VDC			
AC inrush current (max.)	Cold start 50A(twidth=210µs measured at 50% Ipeak) at 230VAC; Per NEMA410	Cold start 55A(twidth=265µs measured at 50% Ipeak) at 230VAC; Per NEMA410	Cold start 70A(twidth=485µs measured at 50% Ipeak) at 230VAC; Per NEMA410	Cold start 60A(twidth=415µs measured at 50% Ipeak) at 230VAC; Per NEMA410
Overload	Range	95~108%		95~108%
	Type	Constant current limiting, recovers automatically after fault condition is removed		
Working humidity	20~95% RH non-condensing			
Storage temp., humidity	-40~+70°C, 10~95%RH°C			
Temp. coefficient	±0.03%/°C(0~50°C)			
Vibration	10~500Hz, 5G 12min./1cycle, period for 72min. each along X, Y, Z axes			
Safety standards	UL8750 (type "HL"), CSAC22.2No.250.0-08 (except for 48V, 54V), TUV EN61347-1, EN61347-2-13 independent, IP65 or IP67 approved; optional models for J61347-1, J61347-2-13; design refer to UL60950-1, TUV EN60950-1, EN60335-1			
Withstand voltage	I/P-O/P:3.75KVAC I/P-FG:2KVAC O/P-FG:1.5KVAC			
Isolation resistance	I/P-O/P, I/P-FG, O/P-FG:100M Ohms / 500VDC / 25°C / 70% RH			
EMC emission	Compliance to EN55015, EN61000-3-2 Class C (@load≥60%); EN61000-3-3			
EMC immunity	Compliance to EN61000-4-2,3,4,5,6,8,11; EN61547, EN55024, light industry level (surge immunity Line-Earth 4KV, Line-Line 2KV)			
Dimension(L*W*H)(mm)	171×61.5×36.8	171×61.5×36.8	195.6×61.5×38.8	220×68×38.8

General Specification

Model No.	HLG-120H	HLG-150H	HLG-185H	HLG-240H	HLG-320H
AC input voltage range	90~305VAC 127~431VDC				
AC inrush current (max.)	Cold start 60A(twidth=375µs measured at 50% Ipeak) at 230VAC; Per NEMA410	Cold start 65A(twidth=425µs measured at 50% Ipeak) at 230VAC; Per NEMA410	Cold start 65A(twidth=445µs measured at 50% Ipeak) at 230VAC; Per NEMA410	Cold start 75A(twidth=570µs measured at 50% Ipeak) at 230VAC; Per NEMA410	Cold start 70A(twidth=1010µs measured at 50% Ipeak) at 230VAC; Per NEMA410
Overload	Range	95~108%			
	Type	Constant current limiting, recovers automatically after fault condition is removed			
Working humidity	20~95% RH non-condensing				
Storage temp., humidity	-40~+70°C, 10~95%RH°C				
Temp. coefficient	±0.03%/°C(0~50°C)				
Vibration	10~500Hz, 5G 12min./1cycle, period for 72min. each along X, Y, Z axes				
Safety standards	UL8750 (type "HL"), CSA C22.2No.250.0-08, ENEC, TUV EN61347-1, EN61347-2-13 independent; IP65 or IP67, J61347-1, J61347-2-13 approved; design refer to UL60950-1, TUV EN60950-1	UL8750 (type "HL"), CSA C22.2No.250.0-08, TUV EN61347-1, EN61347-2-13 independent; IP65 or IP67, J61347-1, J61347-2-13 approved; design refer to UL60950-1, TUV EN60950-1	UL8750 (type "HL"), CSA C22.2No.250.0-08, TUV EN61347-1, EN61347-2-13 independent; IP65 or IP67, J61347-1, J61347-2-13 approved; design refer to UL60950-1, TUV EN60950-1	UL1012, CAN/CSA-C22.2 No.107.1-01, UL8750 (type "HL"), CSAC22.2No.250.0-08, TUV EN61347-1, EN61347-2-13 independent (except for HLG-240H C type); UL60950-1, UL8750, TUV EN60950-1; IP65 or IP67; J61347-1, J61347-2-13 approved	UL8750 (type "HL"), CSA C22.2No.250.0-08, TUV EN61347-1, EN61347-2-13 independent; IP65 or IP67 (except for HLG-240H C type); J61347-1, J61347-2-13 (except for HLG-320H C type) approved;
Withstand voltage	I/P-O/P:3.75KVAC I/P-FG:2KVAC O/P-FG:1.5KVAC				
Isolation resistance	I/P-O/P, I/P-FG, O/P-FG:100M Ohms / 500VDC / 25°C / 70% RH				
EMC emission	Compliance to EN55015, EN55022(CISPR22) Class B, EN61000-3-2 Class C (@load≥50%); EN61000-3-3				
EMC immunity	Compliance to EN61000-4-2,3,4,5,6,8,11; EN61547, EN55024, light industry level (surge immunity Line-Earth 4KV, Line-Line 2KV)				
Dimension(L*W*H)(mm)	220×68×38.8	228×68×38.8	228×68×38.8	244.2×68×38.8	252×90×43.8

40W-Single Output

Model No.	Output	Tol.	R&N	Effi.
HLG-40H-12□	12V,0-3.33A	±2.5%	150mV	86.5%
HLG-40H-15□	15V,0-2.67A	±2%	150mV	86.5%
HLG-40H-20□	20V,0-2A	±1%	150mV	88%
HLG-40H-24□	24V,0-1.67A	±1%	200mV	88%
HLG-40H-30□	30V,0-1.34A	±1%	200mV	88.5%
HLG-40H-36□	36V,0-1.12A	±1%	200mV	88.5%
HLG-40H-42□	42V,0-0.96A	±1%	200mV	88.5%
HLG-40H-48□	48V,0-0.84A	±1%	300mV	89.5%
HLG-40H-54□	54V,0-0.75A	±1%	300mV	89.5%

60W-Single Output

Model No.	Output	Tol.	R&N	Effi.
HLG-60H-15□	15V,0-4A	±2%	150mV	87.5%
HLG-60H-20□	20V,0-3A	±1%	150mV	89%
HLG-60H-24□	24V,0-2.5A	±1%	150mV	89.5%
HLG-60H-30□	30V,0-2A	±1%	200mV	90%
HLG-60H-36□	36V,0-1.7A	±1%	200mV	90%
HLG-60H-42□	42V,0-1.45A	±1%	300mV	90%
HLG-60H-48□	48V,0-1.3A	±1%	300mV	90.5%
HLG-60H-54□	54V,0-1.15A	±1%	300mV	90.5%

80W-Single Output

Model No.	Output	Tol.	R&N	Effi.
HLG-80H-12□	12V,0-5A	±2.5%	150mV	88%
HLG-80H-15□	15V,0-5A	±2%	150mV	89%
HLG-80H-20□	20V,0-4A	±1%	150mV	90%
HLG-80H-24□	24V,0-3.4A	±1%	150mV	90.5%
HLG-80H-30□	30V,0-2.7A	±1%	200mV	91%
HLG-80H-36□	36V,0-2.3A	±1%	200mV	91%
HLG-80H-42□	42V,0-1.95A	±1%	200mV	91%
HLG-80H-48□	48V,0-1.7A	±1%	200mV	91%
HLG-80H-54□	54V,0-1.5A	±1%	200mV	91%

100W-Single Output

Model No.	Output	Tol.	R&N	Effi.
HLG-100H-20□	20V,0-4.8A	±1%	150mV	93%
HLG-100H-24□	24V,0-4A	±1%	150mV	93%
HLG-100H-30□	30V,0-3.2A	±1%	200mV	93%
HLG-100H-36□	36V,0-2.65A	±1%	200mV	93%
HLG-100H-42□	42V,0-2.28A	±1%	200mV	93%
HLG-100H-48□	48V,0-2A	±1%	200mV	93%
HLG-100H-54□	54V,0-1.77A	±1%	200mV	93%

120W-Single Output

Model No.	Output	Tol.	R&N	Effi.
HLG-120H-12□	12V,0-10A	±2.5%	150mV	92%
HLG-120H-15□	15V,0-8A	±2%	150mV	92%
HLG-120H-20□	20V,0-6A	±1%	150mV	93%
HLG-120H-24□	24V,0-5A	±1%	150mV	93%
HLG-120H-30□	30V,0-4A	±1%	200mV	93%
HLG-120H-36□	36V,0-3.4A	±1%	200mV	93%
HLG-120H-42□	42V,0-2.9A	±1%	200mV	93%
HLG-120H-48□	48V,0-2.5A	±1%	200mV	93.5%
HLG-120H-54□	54V,0-2.3A	±1%	200mV	93.5%

150W-Single Output

Model No.	Output	Tol.	R&N	Effi.
HLG-150H-12□	12V,0-12.5A	±2.5%	150mV	91.5%
HLG-150H-15□	15V,0-10A	±2%	150mV	92%
HLG-150H-20□	20V,0-7.5A	±1%	150mV	93%
HLG-150H-24□	24V,0-6.3A	±1%	150mV	93%
HLG-150H-30□	30V,0-5A	±1%	200mV	93.5%
HLG-150H-36□	36V,0-4.2A	±1%	200mV	93.5%
HLG-150H-42□	42V,0-3.6A	±1%	200mV	94%
HLG-150H-48□	48V,0-3.2A	±1%	200mV	94%
HLG-150H-54□	54V,0-2.8A	±1%	200mV	94%

185W-Single Output

Model No.	Output	Tol.	R&N	Effi.
HLG-185H-12□	12V,0-13A	±2.5%	150mV	91.5%
HLG-185H-15□	15V,0-11.5A	±2%	150mV	92%
HLG-185H-20□	20V,0-9.3A	±1%	150mV	93%
HLG-185H-24□	24V,0-7.8A	±1%	150mV	93.5%
HLG-185H-30□	30V,0-6.2A	±1%	200mV	93.5%
HLG-185H-36□	36V,0-5.2A	±1%	200mV	93.5%
HLG-185H-42□	42V,0-4.4A	±1%	200mV	94%
HLG-185H-48□	48V,0-3.9A	±1%	200mV	94%
HLG-185H-54□	54V,0-3.45A	±1%	200mV	94%

240W-Single Output

Model No.	Output	Tol.	R&N	Effi.
HLG-240H-12□	12V,0-16A	±2.5%	150mV	90%
HLG-240H-15□	15V,0-15A	±2%	150mV	90%
HLG-240H-20□	20V,0-12A	±1%	150mV	91.5%
HLG-240H-24□	24V,0-10A	±1%	150mV	92.5%
HLG-240H-30□	30V,0-8A	±1%	200mV	92.5%
HLG-240H-36□	36V,0-6.7A	±1%	250mV	92.5%
HLG-240H-42□	42V,0-5.72A	±1%	250mV	92.5%
HLG-240H-48□	48V,0-5A	±1%	250mV	93%
HLG-240H-54□	54V,0-4.45A	±1%	350mV	93.5%

320W-Single Output

Model No.	Output	Tol.	R&N	Effi.(230VAC)
HLG-320H-12□	12V,0-22A	±3%	150mV	91%
HLG-320H-15□	15V,0-19A	±2%	150mV	92.5%
HLG-320H-20□	20V,0-15A	±1.5%	150mV	93.5%
HLG-320H-24□	24V,0-13.34A	±1%	150mV	94%
HLG-320H-30□	30V,0-10.7A	±1%	200mV	94%
HLG-320H-36□	36V,0-8.9A	±1%	250mV	94.5%
HLG-320H-42□	42V,0-7.65A	±1%	250mV	95%
HLG-320H-48□	48V,0-6.7A	±1%	250mV	95%
HLG-320H-54□	54V,0-5.95A	±1%	350mV	95%



20-150W Single Output Switching Power Supply

- ◆ Constant current design
- ◆ Universal AC input/Full range
- ◆ Withstand 300VAC surge input for 5 seconds
- ◆ Protections: Short circuit/Over voltage
- ◆ Cooling by free air convection
- ◆ Fully encapsulated with IP67 level
- ◆ Fully isolated plastic case
- ◆ Class II power unit, no FG
- ◆ Class A power unit
- ◆ Pass LPS
- ◆ Suitable for LED lighting and moving sign applications
- ◆ 100% full load burn-in test
- ◆ Low cost, high reliability

General Specification

Model No.	LPC-20	LPC-35	LPC-60	LPC-100	LPC-150
AC input voltage range	90~264VAC 127~370VCD				180~305VAC 254~431VCD
AC inrush current (max.)	Cold start 70A(twidth=220μs, measured at 50% Ipeak) at 230VAC	Cold start 55A(twidth=500μs, measured at 50% Ipeak) at 230VAC	Cold start 60A(twidth=540μs, measured at 50% Ipeak) at 230VAC	Cold start 75A(twidth=980μs, measured at 50% Ipeak) at 230VAC	Cold start 40A(twidth=750μs, measured at 50% Ipeak) at 230VAC
Working humidity	20~90% RH non-condensing			10~95% RH non-condensing	
Storage temp., humidity	-40~+80°C, 10~95%RH				
Temp. coefficient	±0.03%/°C(0~50°C)				
Vibration	10~500Hz, 2G 10min./1cycle, period for 60min. each along X, Y, Z axes				
Safety standards	UL879, UL1310, CSAC22.2 No. 207-M89(except for LPC-20-350), CAN/CSAC22.2 No. 223-M91(except for LPC-20-350), TUV EN60950-1, IP67 approved	UL1310 CAN/CSAC22.2 No. 223-M91(except for LPC-35-700), IP67 approved; design refer to TUV EN60950-1	UL1310, CAN/CSAC22.2 No. 223-M91(for LPC-60-1750 only), IP67, IEC60950-1:2005 +A2:2013 approved; design refer to TUV EN60950-1	IP67 approved, Design refer to TUV EN60950-1	IP67 approved, refer to EN60950-1
Withstand voltage	I/P-O/P: 3KVAC				
Isolation resistance	I/P-O/P: >100M Ohms / 500VDC / 25°C / 70% RH				
EMC emission	Compliance to EN55022 (CISPR22) Class B, EN61000-3-2 Class A, EN61000-3-3			Compliance to EN55022 (CISPR22) Class B; EN61000-3-2 Class A (≤80% load); EN61000-3-3	
EMC immunity	Compliance to EN61000-4-2, 3, 4, 5, 6, 8, 11, EN55024, light industry level, criteria A				
Dimension(L*W*H)(mm)	118×35×26	148×40×30	162.5×42.5×32	190×52×37	191×63×37.5

20W-Single Output

Model No.	Output	Tol.	R&N	Effi.
LPC-20-350	350mA, 9-48V	±5%	200mV	83%
LPC-20-700	700mA, 9-30V	±5%	200mV	83%

35W-Single Output

Model No.	Output	Tol.	R&N	Effi.
LPC-35-700	700mA, 9-48V	±5%	200mV	85%
LPC-35-1050	1050mA, 9-30V	±5%	200mV	85%
LPC-35-1400	1400mA, 9-24V	±5%	200mV	85%

60W-Single Output

Model No.	Output	Tol.	R&N	Effi.
LPC-60-1050	1050mA, 9-48V	±5%	200mV	87%
LPC-60-1400	1400mA, 9-42V	±5%	200mV	85%
LPC-60-1750	1750mA, 9-34V	±5%	200mV	87%

100W-Single Output

Model No.	Output	Tol.	R&N	Effi.
LPC-100-350	350mA, 143-286V	±1.5%	1.5Vp-p	90%
LPC-100-500	500mA, 100-200V	±1.5%	1.5Vp-p	90%
LPC-100-700	700mA, 72-143V	±1.5%	1Vp-p	90%
LPC-100-1050	1050mA, 48-96V	±1.5%	1Vp-p	90%
LPC-100-1400	1400mA, 36-72V	±1.5%	1Vp-p	89.5%
LPC-100-1750	1750mA, 29-58V	±1.5%	1Vp-p	89.5%
LPC-100-2100	2100mA, 24-48V	±1.5%	1Vp-p	89%

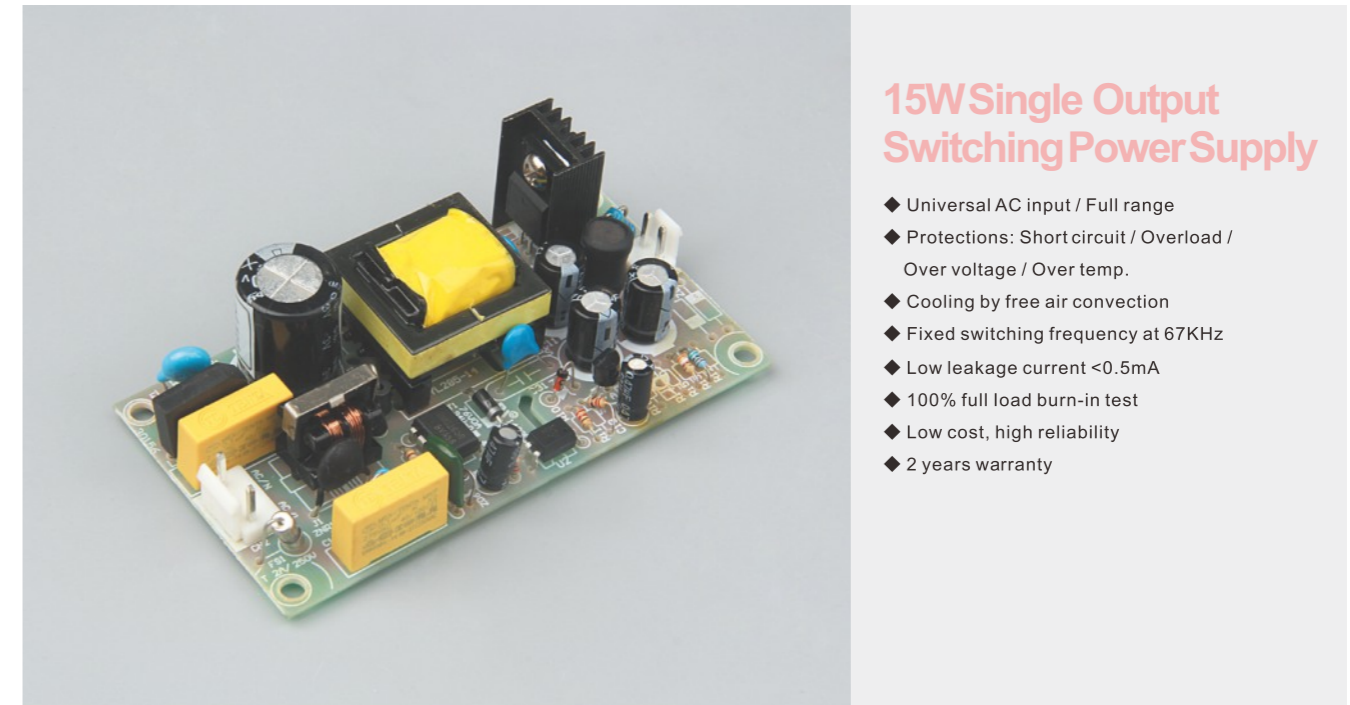
150W-Single Output

Model No.	Output	Tol.	R&N	Effi.	Model No.	Output	Tol.	R&N	Effi.
LPC-150-350	350mA, 215-430V	±2%	2Vp-p	90%	LPC-150-1750	1750mA, 43-86V	±2%	1Vp-p	90%
LPC-150-500	500mA, 150-300V	±2%	1.5Vp-p	90%	LPC-150-2100	2100mA, 36-72V	±2%	1Vp-p	90%
LPC-150-700	700mA, 107-215V	±2%	1Vp-p	90%	LPC-150-2450	2450mA, 31-62V	±2%	1Vp-p	90%
LPC-150-1050	1050mA, 72-144V	±2%	1Vp-p	90%	LPC-150-2800	2800mA, 27-54V	±2%	1Vp-p	90%
LPC-150-1400	1400mA, 54-108V	±2%	1Vp-p	90%	LPC-150-3150	3150mA, 24-48V	±2%	1Vp-p	90%



100~400W Single

- ◆ All using 105°C long life electrolytic capacitors
- ◆ Protections: Short circuit / OLP / OVP
- ◆ Meet EMS EN50082-2/EN61000-6-2 heavy industry level(35~150W)
- ◆ Withstand 300VAC surge input for 5 sec.
- ◆ High operating temperature up to 70°C
- ◆ Withstand 5G vibration test
- ◆ Miniature size, high power density
- ◆ High efficiency, long life and high reliability
- ◆ 100% full load burn-in test
- ◆ Suitable for critical applications
- ◆ 2 years warranty



15W Single Output Switching Power Supply

- ◆ Universal AC input / Full range
- ◆ Protections: Short circuit / Overload / Over voltage / Over temp.
- ◆ Cooling by free air convection
- ◆ Fixed switching frequency at 67KHz
- ◆ Low leakage current <0.5mA
- ◆ 100% full load burn-in test
- ◆ Low cost, high reliability
- ◆ 2 years warranty

General Specification

Model No.	FS-100	FS-150	FS-200	FS-250	FS-350	FS-400
AC input voltage range	180~264VAC					
AC inrush current (max.)	Cold start, 40A at 230VAC					
Overload Protection	Range	>105%				
	Type	Hiccup mode, auto-recovery				
Over voltage protection	115~135% rated output voltage					
Withstand voltage	I/P-O/P: 3KVAC					
Working temperature	-30~+70°C (refer to output derating curve)					
Vibration	10~500Hz, 5G 10min/1 cycle, period for 60 min each along X, Y, Z axes					
Safety standards	Design refer to UL1310 class 2, TUV EN60950-1, EN61347-2-13					
EMC standards	EN55022 class B, EN61000-3-2,3, EN61000-4-2,3,4,5,6,8,11, ENV50204					
Connection (Input/Output)	UL rated, 18AWGx2C (30cm)					
Dimension (L*W*H)(mm)	181×122×56	181×122×56	181×122×56	235×120×75	235×120×75	235×120×75
	0.82kg/pc	0.82kg/pc	0.85kg/pc	0.85kg/pc	0.94kg/pc	0.94kg/pc

100W/FS-100

Model No.	Output	Tol.	R&N	Effi.
FS-100-12	12V, 0-8.5A	±5%	80mV	77%
FS-100-24	24V, 0-4.5A	±5%	120mV	81%

150W/FS-150

Model No.	Output	Tol.	R&N	Effi.
FS-150-12	12V, 0-12.5A	±5%	80mV	77%
FS-150-24	24V, 0-6.5A	±5%	120mV	81%

200W/FS-200

Model No.	Output	Tol.	R&N	Effi.
FS-200-12	12V, 0-16.7A	±5%	80mV	77%
FS-200-24	24V, 0-8.5A	±5%	120mV	81%

250W/FS-250

Model No.	Output	Tol.	R&N	Effi.
FS-250-12	12V, 0-20.0A	±5%	80mV	77%
FS-250-24	24V, 0-10.0A	±5%	120mV	81%

350W/FS-150

Model No.	Output	Tol.	R&N	Effi.
FS-350-12	12V, 0-27.5A	±5%	80mV	77%
FS-350-24	24V, 0-14.6A	±5%	120mV	81%

400W/FS-400

Model No.	Output	Tol.	R&N	Effi.
FS-400-12	12V, 0-33.5A	±5%	80mV	77%
FS-400-24	24V, 0-17.5A	±5%	120mV	81%

General Specification

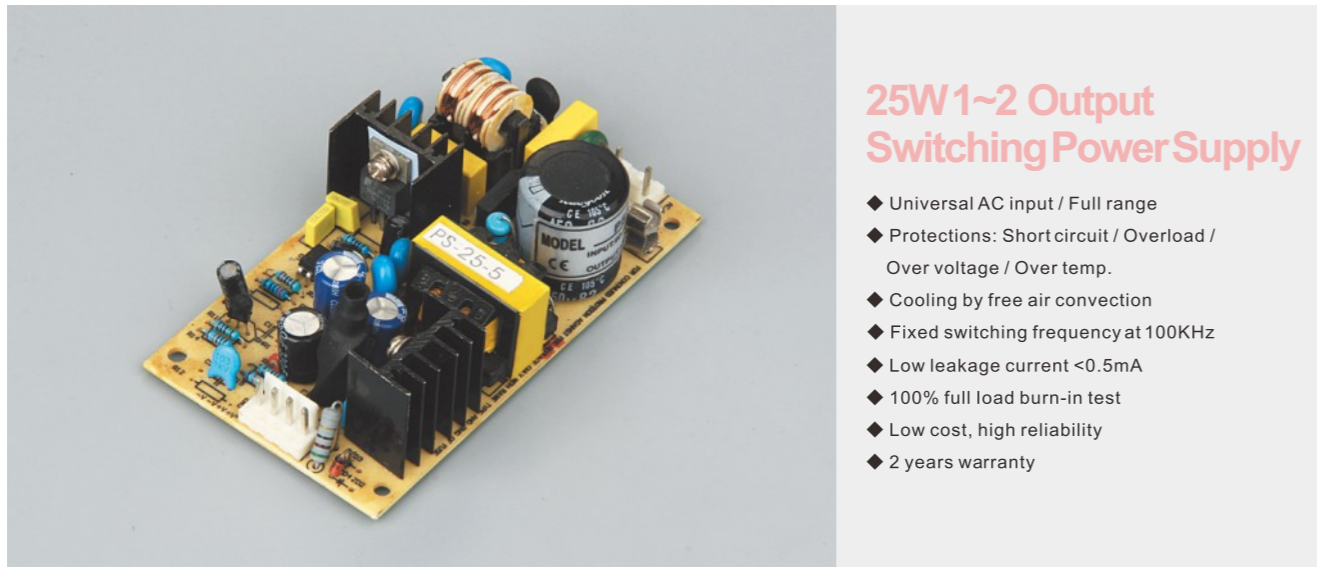
Model No.	PS-05	PS-15
AC input voltage range	85~264VAC; 120~370VDC	
AC inrush current	Cold start, 30A at 230VAC	
Overload protection	>105% hiccup mode, auto-recovery	
Over voltage protection	115%~135% rated output voltage	
Over temp. protection	U1, Tj: 140°C, hiccup mode, auto-recovery	
Leakage current	Less than 0.5mA at 240VAC	
Withstand voltage	I/P-O/P: 3KVAC, I/P-FG: 1.5KVAC, 1 minute	
Working temperature	-10~60°C (refer to output derating curve)	
Safety standards	UL60950-1 CB approval by TUV	
EMC standards	EN55022 class B, EN61000-3-2,3, EN61000-4-2,3,4,5,6,8,11	
Connection	3P, 2P/ 3.96mm pitch, Molex 5285-03,5273-02	3P, 2P/ 3.96mm pitch, JST B3P/B2P-VH
Packing	0.05kg/pc	

5W Single Output

Model No.	Output	Tol.	R&N	Effi.
PS-05-5	5V, 0-1.0A	±2%	100mV	70%
PS-05-12	12V, 0-0.45A	±2%	120mV	75%
PS-05-15	15V, 0-0.35A	±2%	120mV	75%
PS-05-24	24V, 0-0.22A	±2%	200mV	76%
PS-05-48	48V, 0-0.11A	±1%	200mV	76%

15W Single Output

Model No.	Output	Tol.	R&N	Effi.
PS-15-5	5V, 0-2.80A	±2%	100mV	74%
PS-15-12	12V, 0-1.25A	±2%	120mV	77%
PS-15-15	15V, 0-1.00A	±2%	120mV	78%
PS-15-24	24V, 0-0.625A	±2%	150mV	79%
PS-15-48	48V, 0-0.313A	±2%	200mV	77%



25W 1~2 Output Switching Power Supply

- ◆ Universal AC input / Full range
- ◆ Protections: Short circuit / Overload / Over voltage / Over temp.
- ◆ Cooling by free air convection
- ◆ Fixed switching frequency at 100KHz
- ◆ Low leakage current <0.5mA
- ◆ 100% full load burn-in test
- ◆ Low cost, high reliability
- ◆ 2 years warranty



45W 1~3 Output Switching power supply

- ◆ Universal AC input / Full range
- ◆ Protections: Short circuit / Overload / Over voltage
- ◆ Cooling by free air convection
- ◆ Fixed switching frequency at 65KHz
- ◆ Low leakage current <0.5mA
- ◆ 100% full load burn-in test
- ◆ Low cost, high reliability
- ◆ 2 years warranty

General Specification

AC input voltage range	90~264VAC; 120-370VDC		
AC inrush current	Cold start, 40A at 230VAC		
Overload protection	>105% hiccup mode, auto-recovery		
Over voltage protection	115%~135% rated output voltage		
Over temp. protection	U1, Tj: 35°C, power shutdown		
Leakage current	Less than 0.5mA at 240VAC		
Withstand voltage	I/P-O/P: 3KVAC, I/P-FG: 1.5KVAC, 1 minute		
Working temperature	-10~60°C (refer to output derating curve)		
Safety standards	UL60950-1, TUV EN60950-1 approved		
EMC standards	EN55022 class B, EN61000-3-2,3, EN61000-4-2,3,4,5		
Connection	3P, 4P / 3.96mm Pitch, Molex P/N: 41791-03, 04		
Packing	0.14kg/pc	0.15kg/pc	0.13kg/pc

25W Single Output

Model No.	Output	Tol.	R&N	Effi.
PS-25-3.3	3.3V, 0-5.0A	±1%	80mV	66%
PS-25-5	5V, 0-5.0A	±1%	80mV	74%
PS-25-7.5	7.5V, 0-3.3A	±1%	80mV	76%
PS-25-12	12V, 0-2.1A	±1%	100mV	78%
PS-25-13.5	13.5V, 0-1.9A	±1%	100mV	78%
PS-25-15	15V, 0-1.7A	±1%	100mV	78%
PS-25-24	24V, 0-1.0A	±1%	240mV	79%
PS-25-27	27V, 0-0.9A	±1%	240mV	79%
PS-25-48	48V, 0-0.5A	±1%	350mV	79%

25W Dual Output

Model No.	Output	Tol.	R&N	Effi.	Max.
PD-25A	5V, 0.2-2.5A	±2%	50mV	71%	25W
	12V, 0.1-1.5A	±6%	150mV		
PD-25B	5V, 0.2-2.0A	±2%	50mV	77%	25W
	24V, 0.1-1.0A	±6%	200mV		
PD-2505	5V, 0.1-3.0A	±6%	50mV	73%	25W
	-5V, 0.1-2.5A	±6%	50mV		
PD-2512	12V, 0.1-1.2A	±4%	50mV	74%	24W
	-12V, 0.1-1.2A	±4%	50mV		
PD-2515	15V, 0.1-1.0A	±4%	50mV	75%	24W
	-15V, 0.1-1.0A	±4%	50mV		
PD-2503	3.3V, 0.2-5.0A	±2%	50mV	72%	25W
	5V, 0.1-4.0A	+5%,-8%	50mV		

General Specification

AC input voltage range	90~264VAC; 120~370VDC		
AC inrush current	Cold start, 15A at 115VAC, 30A at 230VAC		
DC adjustment range	CH1: -5~+10% rated output voltage		
Overload protection	53~75W hiccup mode, auto-recovery		
Over voltage protection	CH1: 115%~135% rated output voltage		
Leakage current	Less than 0.5mA at 240VAC		
Withstand voltage	I/P-O/P: 3KVAC, I/P-FG: 1.5KVAC, 1minute		
Working temperature	-10~60°C (refer to output derating curve)		
Safety standards	UL60950-1, TUV EN60950-1 approved		
EMC standards	EN55022 class B, EN61000-3-2,3, EN61000-4-2, 3, 4, 5, 6, 8, 11, ENV50204		
Connection	2P, 6P / 3.96mm pitch, Molex P/N: 5277-02, 5273-06		
Packing	0.19kg: 72pcs / 15.6kg / 1.35CUFT (PS-45) 0.20kg: 72pcs / 16.0kg / 1.35CUFT (PD-45) 0.21kg: 72pcs / 17.0kg / 1.35CUFT (PT-45)		

45W Single Output

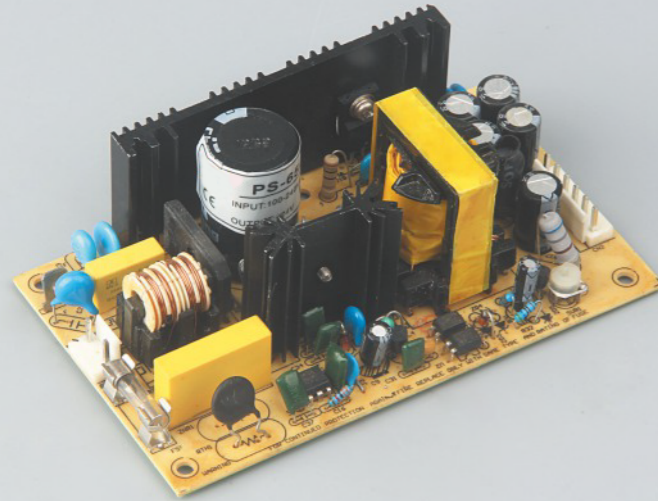
Model No.	Output	Tol.	R&N	Effi.
PS-45-3.3	3.3V, 0-8.0A	±3%	80mV	69%
PS-45-5	5V, 0-8.0A	±3%	100mV	74%
PS-45-7.5	7.5V, 0-5.4A	±3%	100mV	75%
PS-45-12	12V, 0-3.7A	±2%	100mV	76%
PS-45-13.5	13.5V, 0-3.3A	±2%	100mV	77%
PS-45-15	15V, 0-3.0A	±2%	100mV	77%
PS-45-24	24V, 0-1.9A	±2%	100mV	78%
PS-45-27	27V, 0-1.7A	±2%	100mV	78%
PS-45-48	48V, 0-1.0A	±2%	100mV	78%

45W Triple Output

Model No.	Output	Tol.	R&N	Effi.	Max.
PT-45A	5V, 0.4-5.0A	±4%	50mV	75%	41W
	12V, 0.2-2.5A	±7%	120mV		
PT-45B	-5V, 0.0-0.5A	±5%	50mV	75%	43W
	5V, 0.4-5.0A	±4%	50mV		
PT-45C	12V, 0.2-2.5A	±7%	120mV	75%	44W
	-12V, 0.4-0.5A	±5%	100mV		
PT-45C	5V, 0.4-5.0A	±4%	50mV	75%	44W
	15V, 0.2-2.3A	±7%	120mV		
PT-45C	15V, 0.2-2.3A	±7%	120mV	75%	44W
	-15V, 0.0-0.5A	±5%	100mV		

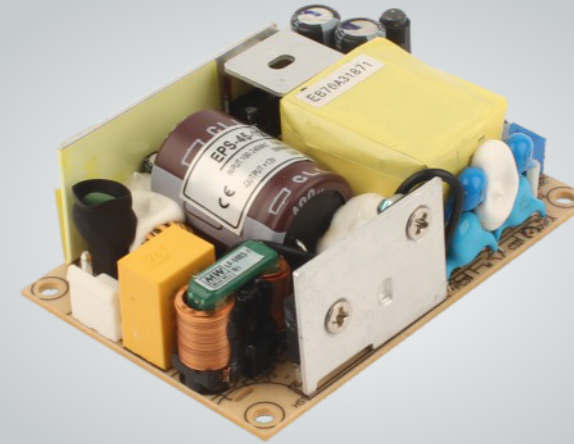
45W Dual Output

Model No.	Output	Tol.	R&N	Effi.	Max.
PD-45A	5V, 0.4-5.0A	±4%	50mV	77%	40W
	12V, 0.2-2.5A	±7%	120mV		
PD-45B	5V, 0.4-5.0A	±4%	50mV	78%	45W
	24V, 0.2-1.8A	±7%	120mV		



65W 1~3 Output Switching power supply

- ◆ Universal AC input / Full range
- ◆ Protections: Short circuit / Overload/ Over voltage
- ◆ Cooling by free air convection
- ◆ Fixed switching frequency at 65KHz
- ◆ Low leakage current <0.5mA
- ◆ 100% full load burn-in test
- ◆ Low cost, high reliability
- ◆ 2 years warranty



15W~120W Single Output Switching Power Supply

- ◆ Universal AC input / Full range
- ◆ Protections: Short circuit / Overload/ Over voltage
- ◆ Cooling by free air convection
- ◆ Fixed switching frequency at 65KHz
- ◆ Low leakage current <0.5mA
- ◆ 100% full load burn-in test
- ◆ Low cost, high reliability
- ◆ 2 years warranty

AC input voltage range	90~264VAC; 127-370VDC
AC inrush current	Cold start, 20A at 115VAC, 40A at 230VAC
DC adjustment range	CH1: -5~+10% rated output voltage
Overload protection	73~105W hiccup roode, auto-recovery
Over voltage protection	CH1: 115%~135% rated output voltage
Leakage current	Less than 0.5mA at 240VAC
Setup, rise, hold up time	800ms, 20ms, 60ms at full load and 230VAC
Withstand voltage	I/P-O/P: 3KVAC, I/P-FG: 1.5KVAC, 1 minute
Working temperature	0~45°C 100%, -10°C 80%, 60°C 50% load
Safety standards	UL60950-1, TUV EN60950-1 approved
EMC standards	EN55022 class B, EN61000-3-2,3, EN61000-4-2,3,4,5,6,8,11, ENV50204
Connection	2P, 6P/ 3.96mm pitch, Molex P/N: 5277-02,5273-06
Packing	0.21kg/pc:54pcs/14.2kg/1.35CUFT(PS-65) 0.24kg/pc:54pcs/15.0kg/1.35CUFT(PD-65) 0.25kg /pc:54pcs/15.9kg/1.35CUFT(PT-65)

65W Single Output

Model No.	Output	Tol.	R&N	Effi.	Model No.	Output	Tol.	R&N	Effi.
PS-65-3.3	3.3V, 0-12A	±3%	80mV	69%	PS-65-15	15V, 0-4.2A	±2%	100mV	79%
PS-65-5	5V, 0-12A	±3%	100mV	76%	PS-65-24	24V, 0-2.7A	±2%	100mV	80%
PS-65-7.5	7.5V, 0-8.0A	±3%	100mV	79%	PS-65-27	27V, 0-2.4A	±2%	100mV	80%
PS-65-12	12V, 0-5.2A	±2%	100mV	79%	PS-65-48	48V, 0-1.35A	±2%	100mV	80%
PS-65-13.5	13.5V, 0-4.7A	±2%	100mV	79%					

65W Triple Output

Model No.	Output	Tol.	R&N	Effi.	Max.	Model No.	Output	Tol.	R&N	Effi.	Max.
PT-65A	5V, 0.4-7.0A	±4%	50mV	76%	60W	PT-65C	5V, 0.4-7.0A	±4%	50mV	77%	65W
	12V, 0.2-3.2A	±7%	120mV				15V, 0.2-2.6A	±7%	120mV		
	-5V, 0.0-0.7A	±5%	50mV				-15V, 0.0-0.7A	±5%	100mV		
PT-65B	5V, 0.4-7.0A	±4%	50mV	77%	64W	PT-65D	5V, 0.5-5.0A	±4%	50mV	79%	68W
	12V, 0.2-3.2A	±7%	120mV				12V, 0.2-4.0A	±6%	100mV		
	-12V, 0.0-0.7A	±5%	100mV				24V, 0.2-1.3A	±6%	200mV		

65W Dual Output

Model No.	Output	Tol.	R&N	Effi.	Max.
PD-65A	5V, 0.4-7.0A	±4%	50mV	78%	61W
	12V, 0.2-3.2A	±7%	120mV		
PD-65B	5V, 0.4-6.0A	±4%	50mV	81%	66W
	24V, 0.2-2.6A	±7%	150mV		

General Specification

Model No:	EPS-15	EPS-25	EPS-35	EPS-45	EPS-65	EPS-45S	EPS-65S	EPS-120
AC input voltage range	85~264VAC;113~370VDC [DC input operation possible by connecting AC/N(+), AC/L(-)]							
AC inrush current	COLD START 45A/230VAC							
DC adjustment range	CH1: -5~+10% rated output voltage							
Overload protection	115 ~ 170% rated output power [Hiccup mode, recovers automatically after fault condition is removed]							
Over voltage protection	115 ~ 150% [Shut down o/p voltage, re-power on to recover]							
Leakage current	<2mA/240VAC							
Withstand voltage	I/P-O/P:3KVAC I/P-FG:2KVAC O/P-FG:0.5KVAC							
Working temperature	-30 ~ +70°C(Refer to "Derating Curve")							
Safety standards	UL62368-1, TUV EN62368-1, EAC TP TC 004, CCC GB4943.1 approved							
EMC standards	Compliance to EN55032 (CISPR32) Class B, EN61000-3-2,-3, EAC TP TC 020, GB9254 Class B, GB17625.1 Compliance to EN61000-4-2,3,4,5,6,8,11, EN55024, heavy industry level, criteria A, EAC TP TC 020							
Connection	2P, 2P / 3.96mm pitch, Molex P / N:5277-02, 5273-06				2P, 4P / 3.96mm pitch, Molex P / N:5277-02, 5273-06			
Packing(mm,L*W*H)	63.5*45.7*24	76.2*50.8*24			PCB:101.6*50.8*29; with optional CASE:103.4*62*37		76.2*50.8*24	101.6*50.8*29

15W Single Output

Model No.	Output	Tol.	R&N	Effi.
EPS-15-3.3	3.3V;0-3.3A	±2%	50mV	75%
EPS-15-5	5V;0-3.3A	±2%	50mV	78%
EPS-15-7.5	7.5V;0-2.2A	±2%	80mV	81%
EPS-15-12	12V;0-1.38A	±1%	80mV	82%
EPS-15-15	15V;0-1.1A	±1%	100mV	83%
EPS-15-24	24V;0-0.69A	±1%	150mV	83%
EPS-15-27	27V;0-0.615A	±1%	180mV	84%
EPS-15-36	36V;0-0.46A	±1%	200mV	85%
EPS-15-48	48V;0-0.344A	±1%	200mV	85%

25W Single Output

Model No.	Output	Tol.	R&N	Effi.
EPS-25-3.3	3.3V;0-3.3A	±2%	60mV	79%
EPS-25-5	5V;0-3.3A	±2%	60mV	81%
EPS-25-7.5	7.5V;0-2.2A	±2%	80mV	83%
EPS-25-12	12V;0-1.38A	±1%	100mV	86%
EPS-25-15	15V;0-1.1A	±1%	100mV	87%
EPS-25-24	24V;0-0.69A	±1%	180mV	88%
EPS-25-27	27V;0-0.615A	±1%	180mV	89%
EPS-25-36	36V;0-0.46A	±1%	200mV	89%
EPS-25-48	48V;0-0.344A	±1%	240mV	90%

35W Single Output

Model No.	Output	Tol.	R&N	Effi.
EPS-35-3.3	3.3V;0-6.6A	±2.5%	60mV	80%
EPS-35-5	5V;0-6.6A	±2%	70mV	82%
EPS-35-7.5	7.5V;0-5.2A	±2%	80mV	84%
EPS-35-12	12V;0-3.3A	±1%	100mV	87%
EPS-35-15	15V;0-2.65A	±1%	100mV	88%
EPS-35-24	24V;0-1.65A	±1%	180mV	89%
EPS-35-27	27V;0-1.45A	±1%	180mV	89%
EPS-35-36	36V;0-1.1A	±1%	200mV	89%
EPS-35-48	48V;0-0.82A	±1%	240mV	90%



15W~120W Single Output Switching Power Supply

- ◆ Universal AC input / Full range
- ◆ Protections: Short circuit / Overload / Over voltage
- ◆ Cooling by free air convection
- ◆ Fixed switching frequency at 65KHz
- ◆ Low leakage current <0.5mA
- ◆ 100% full load burn-in test
- ◆ Low cost, high reliability
- ◆ 2 years warranty



10~20W Single Output Switching Power Supply

- ◆ International general full range of ac input
- ◆ Input Block can be customized :product suffix, plum tail, 8 word tail
- ◆ Output DC head can be configured according to the device female
- ◆ Protections: Short circuit/Overload/Over voltage /Over Temp.
- ◆ Fully isolated plastic case
- ◆ LED indicator for power on
- ◆ Rounded antistatic PIN
- ◆ Safety Approvals CE, FCC, ROHS etc.
- ◆ No-load power consumption less than 0.5W
- ◆ 2 years warranty

45W Single Output					65W Single Output				
Model No.	Output	Tol.	R&N	Effi.	Model No.	Output	Tol.	R&N	Effi.
EPS-45-3.3□	3.3V;0~9A	±3%	80mV	78%	EPS-65-3.3□	3.3V;0~12A	±3%	80mV	80%
EPS-45-5□	5V;0~9A	±2%	80mV	81%	EPS-65-5□	5V;0~12A	±2%	80mV	82%
EPS-45-7.5□	7.5V;0~6A	±2%	100mV	82%	EPS-65-7.5□	7.5V;0~8.8A	±2%	100mV	84%
EPS-45-12□	12V;0~4.2A	±2%	120mV	83%	EPS-65-12□	12V;0~6A	±2%	120mV	86%
EPS-45-15□	15V;0~3.3A	±2%	150mV	83%	EPS-65-15□	15V;0~4.8A	±2%	150mV	87%
EPS-45-24□	24V;0~2.1A	±1%	240mV	84%	EPS-65-24□	24V;0~3A	±1%	240mV	88%
EPS-45-36□	36V;0~1.1A	±1%	280mV	85%	EPS-65-36□	36V;0~2A	±1%	280mV	89%
EPS-45-48□	48V;0~0.344A	±1%	300mV	85%	EPS-65-48□	48V;0~1.5A	±1%	300mV	90%

45W Single Output					65W Single Output				
Model No.	Output	Tol.	R&N	Effi.	Model No.	Output	Tol.	R&N	Effi.
EPS-45S-3.3	3.3V;0~8.8A	±2%	80mV	80%	EPS-65S-3.3	3.3V;0~11A	±2%	80mV	80%
EPS-45S-5	5V;0~8.8A	±2%	80mV	83%	EPS-65S-5	5V;0~11A	±2%	80mV	84%
EPS-45S-7.5	7.5V;0~5.95A	±2%	80mV	85%	EPS-65S-7.5	7.5V;0~8.8A	±2%	80mV	85%
EPS-45S-12	12V;0~4.18A	±2%	120mV	88%	EPS-65S-12	12V;0~5.96A	±2%	120mV	88%
EPS-45S-15	15V;0~3.3A	±1%	150mV	89%	EPS-65S-15	15V;0~4.77A	±1%	150mV	89%
EPS-45S-24	24V;0~2.1A	±1%	240mV	90%	EPS-65S-24	24V;0~2.98A	±1%	240mV	90%
EPS-45S-48	48V;0~1.03A	±1%	300mV	91%	EPS-65S-48	48V;0~1.49A	±1%	300mV	91%

120W Single Output				
Model No.	Output	Tol.	R&N	Effi.
EPS-120-12	12V;0~7A	±2%	120mV	88%
EPS-120-15	15V;0~5.6A	±2.5%	12mV	88.5%
EPS-120-24	24V;0~3.5A	±1%	150mV	90%
EPS-120-27	27V;0~3.15A	±1%	150mV	90%
EPS-120-48	48V;0~1.75A	±1%	200mV	91%

General Specification				
Model No.	12W	24W	36W 48W 60W 70W	120W
AC input voltage range	100~240V	90~264VAC		
AC inrush current (max.)	75A/230VAC			
Over Load	Any short circuit, the fuse will automatically cut off the circuit.			
Over current	110%~160% rated output power. Hiccup mode, recovers automatically after load back to normal			
Over voltage	rated output power too high will cut off the circuit. Shut down output voltage on to recover			
Over Temp.	Working temperature exceeds 95°C, automatically cut off the circuit after the restart			
Withstand voltage	3KVAC			
Working temperature	0°C~45°C			
Safety standards	EN60950			
EMC standards	EMC55022, 55024			
Dimension (L*W*H) (mm)	75*40*30	97*44*28	119*52*32	173*70*40
Packing	White box(Also can as your requirement)			

12W Single Output				
Model No.	Output	Tol.	R&N	Effi.
PAL-120010	12V,0-1A	±1%	100mV	83%
PAL-120020	12V,0-2A	±1%	100mV	83%

24W Single Output					36W Single Output				
Model No.	Output	Tol.	R&N	Effi.	Model No.	Output	Tol.	R&N	Effi.
PAL-120020	12V,0-2A	±5%	80mV	86%	PAL-120030	12V,0-3.0A	±5%	80mV	86%
PAL-150016	15V,0-1.6A	±5%	100mV	87%	PAL-150021	15V,0-2.1A	±5%	100mV	87%
PAL-190013	19V,0-1.3A	±4%	120mV	88%	PAL-190019	19V,0-1.9A	±4%	120mV	88%
PAL-240010	24V,0-1.0A	±3%	150mV	89%	PAL-240015	24V,0-1.5A	±3%	150mV	89%
PAL-30008	30V,0-0.8A	±2%	180mV	90%	PAL-300012	30V,0-1.2A	±2%	180mV	90%

48W Single Output					60W Single Output				
Model No.	Output	Tol.	R&N	Effi.	Model No.	Output	Tol.	R&N	Effi.
PAL-120040	12V,0-4.0A	±5%	80mV	86%	PAL-120050	12V,0-5.0A	±5%	150mV	89%
PAL-150032	15V,0-3.2A	±5%	100mV	87%	PAL-150040	15V,0-4.0A	±5%	150mV	89%
PAL-190025	19V,0-2.5A	±4%	120mV	88%	PAL-190032	19V,0-3.2A	±5%	150mV	89%
PAL-240020	24V,0-2.0A	±3%	150mV	89%	PAL-240025	24V,0-2.5A	±5%	150mV	89%
PAL-300016	30V,0-1.6A	±2%	180mV	90%	PAL-300020	30V,0-2.0A	±5%	150mV	89%

70W Single Output					120W Single Output				
Model No.	Output	Tol.	R&N	Effi.	Model No.	Output	Tol.	R&N	Effi.
PAL-120058	12V,0-5.8A	±5%	150mV	89%	PAL-120010	12V,0-10A	±5%	80mV	86%
PAL-150047	15V,0-4.7A	±5%	150mV	89%	PAL-150080	15V,0-8.0A	±5%	100mV	87%
PAL-190037	19V,0-3.2A	±5%	150mV	89%	PAL-190063	19V,0-6.3A	±4%	120mV	88%
PAL-240029	24V,0-2.9A	±5%	150mV	89%	PAL-240050	24V,0-5.0A	±3%	150mV	89%
PAL-300023	30V,0-2.3A	±5%	150mV	89%	PAL-300040	30V,0-4.0A	±2%	180mV	90%



60~300W CCTV POWER SUPPLY BOX

- ◆ High efficiency, high reliability, low cost
- ◆ Universal AC input / full range
- ◆ 100% full load burn-in test
- ◆ Protections: Short circuit/ Over load / Over voltage
- ◆ PWM control and regulated
- ◆ Forced air cooling by built in DC fan
- ◆ Built-in cooling Fan ON-OFF control
- ◆ Fixed switching frequency at 25 KHz
- ◆ 2 years warranty

General Specification

Model No.	CCTV-60	CCTV-120	CCTV-200	CCTV-300
AC in put voltage range	85~132VAC/170~264VAC selected by switch 47~63Hz; 240~370VDC	88~132VAC/180~264VAC selected by switch 47~63Hz; 255~370VDC	88~132VAC/176~264VAC selected by switch 47~63Hz; 248~370VDC	90~132VAC/180~264VAC selected by switch 47~63Hz; 254~370VDC
AC inrush current	Cold start 30A/115VAC 60A/230VAC			Cold start 50A/115V 50A/230V
Over Load	105%~150%		105%~160%	105%~135%
	Protection type: Fold back current limiting, recovers automatically after fault condition is removed.(CCTV-60/300)			
Over Voltage	115%~135%			
	Protection type: hiccup mode, recovers automatically after fault condition is removed.(CCTV-60/300) Protection type: plusing hiccup shutdown Reset:auto recovery(CCTV-120/200)			
Withstand voltage	I/P-O/P: 3KVAC I/P-FG: 1.5KVAC O/P-FG: 0.5KVAC			I/P-O/P: 1.5KVAC I/P-FG: 1.5KVAC O/P-FG: 0.5KVAC
Working temperature	-10°C~+60°C(Refer to output derating curve),20%~90%RH			
Safety standards	Design refer to UL1012, UL1950, TUV En60950	UL1012TUV En60950 (IEC950,UL1950)Approved	Design refer to UL1950	Design refer to UL1950
EMC standards	Design refer to EN55022, EN61000-3-2, -3, EN61000-4-2, 3, 4, 5, 6, 8, 11; ENV50204, En55024(CCTV-60) CLSPR22(EN55022),IEC801-2,3,4,IEC555-2 Verification(CCTV-120) Design refer to FCC Part 15J class A(CCTV-200) Design refer to EN55022, EN55024, EN61000(CCTV-300)			
Manifold	4P:1.35A 5P:1A 8P:0.5A	8P:1.35A 16P:0.5A	10P:1.35A 12P:1A 16P:0.5A	12P:1.35A 16P:1A 18P:0.5A
Dimension(L*W*H)(mm)	235*208*50	315*214*61	315*214*61	315*214*61
Packing	1.43kg/pc	1.98kg/pc	2.15kg/pc	2.17kg/pc