

DC Input 1U Open Frame
Industrial Switching Mode Power Supply

Series	Model No.	Output Watts	Input Voltage	Input Voltage range	Polarity reverse protection
12	STC-1230XXX	30W continuous	12V DC	±9 ~ ±17V DC	Auto recovery by same type of fuse replacement
24	STC-2440XXX	40W continuous	24V DC	±18 ~ ±36V DC	Auto recovery by same type of fuse replacement
48	STC-4850XXX	50W continuous	48V DC	±37 ~ ±71V DC	Auto recovery by same type of fuse replacement
120	STC-12050XXX	50W continuous	120V DC	±90V ~ ±145V DC	Auto recovery by same type of fuse replacement
220	STC-4850XXX	50W continuous	220V DC	±190V ~ ±245V DC	Auto recovery by same type of fuse replacement

ENVIRONMENTAL CONDITIONS:

- Cooling: Convention cooling with L bracket heatsink
- Operating Temperature: 0°C ~+65°C (Full Load)
- Operating Humidity: 20%~85% RH. (Non condensing)
- Storage Temperature: -20°C ~+85°C
- Storage Humidity: 10%~90% RH. (Non condensing)
- Operating Altitude: 10M Below Sea level to 3000M Above Sea level

DC INPUT CHARACTERISTICS:

- Input connector type 15A/300V UL Approved 2-Pin Terminal
- Input Current 10A(max) @Full Load & Low Line
- Inrush Current Less than 10A Cold start @25ºC ambient

DC OUTPUT CHARACTERISTICS:

Output Voltage	Regulation			Output Current 30W~50W		Ripple & Noise
	Load	Line	Cross	Min.	Max.	
5V ~ 125V DC	±5%	±1%	±5%	0A	open	
Total combined continuous maximum output power				**30W~50W**		**Watts**

OVERALL PERFORMANCE:

Efficiency	85% typical @ 120V and 220V DC Full load
Efficiency	80% typical @ 48V DC Full load
	70% typical @ 24V DC Full load
	65% typical @ 12V DC Full load
Short Circuit Protection (SCP)	All output equipped with SCP (shutdown and latch off)
Over Power Protection (OPP)	Peak power protected to 130%±10% of continuous rated power (shutdown and latch off)
Over Voltage Protection (OVP)	All output 130% of each output voltage

RELIABILITY:

MTBF (Mean Time Between Failure):	>75,000 hours @max. Load & 25°C ambient
Safety Standards:	Meet IEC60950-1, EN60950-1
Safety Approved:	
EMI Compatibility (EMC) Standard:	EN55032:2015/AC:2016, CISPR32:2015, EN61000-3-2:2014, EN61000-3-3:2013, EN55024:2010 +A1:2015

ISOLATION:

INPUT and OUTPUT are isolated by transformers and optical couplers	
Dielectric Withstand	INPUT to OUTPUT: 1500V DC for 60 seconds,
Dielectric Withstand	INPUT to FRAME GROUND: 1500V DC for 60 seconds
Leakage Current	<0.005μA @ 250V DC

Input & Output Device Connector Specific:

Connector type — 15A/300V UL Approved 2-Pin Terminal

Power PCB Dimension:

106 (L) x 59 (w) x 40 (H) mm / 4.17 (L) x 2.32 (W) x 1.57(H) Inches

Net Weight:

0.17 kg / 0.374 Lbs

Gross Weight:

0.25 kgs / 0.55 Lbs

Packing Detail:

20 pcs

Measurement of Carton:

0.0325 m³ / 1.15 Cuft