

±12V DC INPUT 1U Open Frame Single Output Industrial DC to DC Power Supply

Series	Model No.	Output Watts	Input Voltage	Input Voltage range	Polarity reverse protection
12	STC-1210004U	120W continuous	12V DC	±9~±17VDC	Protected 12V/(50V DC)
	STC-1210005U	100W continuous			
	STC-1210012U	100W continuous			
	STC-2412019U	120W continuous			
	STC-2412024U	120W continuous			

ENVIRONMENTAL CONDITIONS:

- Cooling: Nature convection with U bracket heatsink
- Operating Temperature: 0°C~+50°C (Full Load)
- Operating Humidity: 20%~85% RH. (Non condensing)
- Storage Temperature: -20°C~+80°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: 30A/300V UL Approved 3-Pin Terminal
- Input Current: 13.5A/6.6A(**100W**) 16A/8A(**120W**) @ Full Load Low Line & High Line
- Inrush Current: Less than 10A Cold start @25°C ambient

DC OUTPUT CHARACTERISTICS:

Output Voltage	Regulation			Output Current				Ripple & Noise
	Load	Line	Cross	120W		100W		
				Min.	Max.	Min.	Max.	
+4V	±5%	±1%	±5%	0.2A	30A			40mV
+5V						0.2A	20A	50mV
+12V						0.2A	8.3A	120mV
+19V				0.2A	6.3A			190mV
+24V				0.2A	5A			240mV
Total output power				120W		100W		
All output voltage is optional, please add output voltage at the last for replace of XX as model no.								

OVERALL PERFORMANCE:

Efficiency	80% typical @ 12V DC Ful Load
Hold up time:	
Rise time	
Power Good Signal	
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)	+4V, +5V +12V, +19V, +24V DC each unit output voltage

RELIABILITY:

MTBF (Mean Time Between Failure):	>50,000 hours @max. Load, 12V DC 25°C ambient
Safety Standards:	Meet UL60950-1, TüV 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
Dielectric Withstand	Input to Output: 1500VDC for 1second, Input to Frame Ground:1500VDC for 1second
Leakage Current	<0.0005uA @ 12V DC

COMPONENT INGREDIENT:

Components	Material	Supplier	Country of original
PCB	FR4 2 OZ cooper 3 OZ Copper	Nan Ya PCB Corp.	Taiwan
MOSFET/ Transistor		Vishay(IR)	USA or other investment countries
Transformer		Li Lian Electronic Co., Ltd.	Taiwan
E. Capacitor	LESR -40C~105 Celsius or ~+125 Celsius	Nippon Chemi-con, Hitachi, Nichicon, Rubycon	Japan or investment countries

Input & Output Device Connector Specific:

Connector type 25A/300V UL Approved 8-Pin Terminal

Power Chassis Dimension:

172(L) x 98(W) x 40(H)mm

Net Weight (1pc):

0.8 kg

Gross Weight (1pc):

1.5 kg

Packing Detail:

16 pcs

Measurement of Carton (16pcs):

2.13 Cu.ft
47 x 34 x 37.8 cm
GW 13.5 kg