

±48V 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
48	STC-4815004U	150W continuous	48V DC	±37 ~ ±71VDC	Protected 48V/(100V DC)
	STC-4815005U				
	STC-4815012U				
	STC-4815019U				
	STC-4815024U				
	STC-4818004U	180W continuous			
	STC-4818005U				
	STC-4818012U				
	STC-4818019U				
	STC-4818024U				

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: 2.4A/4.8A(**150W**) 2.8A/5.75A(**180W**) @ 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	150W		180W		
				Min.	Max.	Min.	Max.	
+4V	±5%	±1%	±5%	0.2A	37.5A	0.2A	45A	40mV
+5V				0.2A	30A	0.2A	36A	50mV
+12V				0.2A	12.5A	0.2A	15A	120mV
+19V				0.2A	7.9A	0.2A	9.47A	190mV
+24V				0.2A	6.25A	0.2A	7.5A	240mV
Total output power				150W		180W		
All output voltage is optional, please add output voltage at the last for replace of XX as model no.								

OVERALL PERFORMANCE:

- Efficiency — 85% typical @ 48V 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): >70,000 hours @max. Load, 24V 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 @ 48V 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