STC Powertech

Cutting edge Power Supplies



DC Input HIGH POWER 2500W-6000W 3U RACKMOUNT Switching mode DC to DC Converter

Series	Model No.	Input Voltage	Output Watts	Input Voltage range	Efficiency
12	STC-122500XXX	±12V DC	2500W	±9V ~±16V DC	70%-90%
24	STC-243500XXX	±24V DC	3500W	±18V ~ ±35V DC	70%-90%
48	STC-483500XXX	±48V DC	3500W	±36V ~ ±72V DC	70%-90%
110	STC-1105000XXX	±110V DC	5000W	±90V ~ ±145V DC	70%-90%
520	STC-5206000XXX	±520VDC	6000W	±480VDC~±620VDC	70%-90%

*** Note: custom models with any other necessary input and output voltages are available**

**** Note: XXX (where X=0~9) shows output voltage**

ENVIRONMENTAL CONDITIONS:

- Cooling: Forced Air-cooling, **80x80x25 mm Fan x 7**
- Fan brand: SUNON, DELTA, ADDA, NMB with the same specification
- Operating Temperature: 0°C~+50°C
- 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//600V UL Approved 3-Pin Terminal block
- Input Current 18A/15A/13A(max) @Full Load High Line & Low Line
- Inrush Current Less than 10A cold start @25°C ambient

DC OUTPUT CHARACTERISTICS:

- **Any voltages upon customer request**

OVERALL PERFORMANCE:

- Efficiency: 70% typical @ 12V, 24V, 48V, 110V, 520V DC Full 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): Depends on requested DC output voltage

RELIABILITY:

- MTBF: >100,000 hours @max. Load, @25°C ambient
- Safety Standards: Meet IEC60950-1, EN60950-1
- Safety Approved:
- EMI Compatibility (EMC): 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 @12v, 24v INPUT to OUTPUT & INPUT to FRAME GROUND: 1.0kV DC for 60 second
- Dielectric Withstand @48V INPUT to OUTPUT & INPUT to FRAME GROUND: 2.0kV DC for 60 second
- Dielectric Withstand @110V INPUT to OUTPUT & INPUT to FRAME GROUND: 2.5kV DC for 60 second
- Leakage Current: <0.005μA @ 12V, 24V, 48V, 110V, 520V DC

Output Device Connector Specific:

Connector type 30A~300A/600V UL Approved 8-Pin Terminal

Power Chassis Dimension:

312(L) x 482.6(W) x 66.1(H) mm / 12.28(L) x 19(L) x 2.6(H) Inches

Net Weight:

13 kg / 28.66 lbs

Gross Weight:

15 kg / 33.07 lbs

Packing Detail:

1 PCs

Measurement of Carton:

0.0467 m3 / 1.65 Cuft