



**±48V DC Input Industrial PC ATX 12V 2.03
1U Switching Mode Power Supply
83mm WIDE**

Series	Model No.	Output Watts	Input Voltage	Input Voltage range	Polarity reverse protection
48	STC-48450II	450 W	±48V DC	±36V ~ ±70V DC	Protected (Max.100V DC)

ENVIRONMENTAL CONDITIONS:

- ▶ Cooling: Forced Air-cooling, **40x40x28mm Fan x 2 (With Two Ball Bearing)**
- ▶ Operating Temperature: **0°C~+50°C (-20°C~+60°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 Above Sea level 3000M**

DC INPUT CHARACTERISTICS:

- ▶ Input connector type **40A/ 300V Single table type Terminal x 2**
- ▶ Input Current **8A/16.25A(450W) @ Full Load High Line & Low Line**
- ▶ Inrush Current **Less than 15A Cold start @25°C ambient**

DC OUTPUT CHARACTERISTICS:

Output Voltage	Regulation			Output Current		Ripple & Noise
	Load	Line	Cross	450W		
+5V	±5%	±1%	±5%	Min.	Max.	50mV
+12V				0A	40A	
+3.3V				0A	30A	
					25A	50mV
-12V	±8%			0A	1A	120mV
+5VSB	±5%			0A	3A	50mV
Maximum continuous combined load on +3.3 V & +5V & 12V DC output shall not exceed				420		Wattage
Maximum continuous total DC output power shall not exceed				450		

OVERALL PERFORMANCE:

- ▶ Efficiency **70~75% typical @ 48V DC Full Load**
- ▶ Hold up time
- ▶ Rise time
- ▶ Power Good Signal **TTL Compatible signal, on delay 100~500ms, off delay 1ms min.**
- ▶ 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) **+3.3V@4.5V, +5V@6V, +12V@15.6V**

RELIABILITY:

- ▶ MTBF (Mean Time Between Failure): >80,000 hours @max. Load, 48V DC & 25°C ambient
- ▶ Safety Standards: Meet IEC60950-1 and 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: 1000V DC for 60 seconds
- ▶ Dielectric Withstand INPUT to FRAME GROUND: 1000V DC for 60 seconds
- ▶ Leakage Current <0.005µA @48V DC

Output Device Connector Specific:

ATX 24 Pins x 1	Molex 29-01-2240 or equivalent
+12V(P4) 4 Pins x 1	Molex 39-01-2040 or equivalent
HDD, DVD 4 Pins x 7	Molex 8981-04P or equivalent
FDD 4 Pins x 1	AMP 171822-4 or equivalent
Serial ATA x 2	Molex 675820000 or equivalent
Process EPS 8 Pins x 1	Molex 39-01-2080 or equivalent

Standard Output Cable Length From Chassis:

600 mm ±20mm / 23.6 inches

Power Chassis Dimension:

250(L) x 83(W) x 40(H) mm / 9.84(L) x 3.27(W) x 1.57(H) inches

Net Weight:

2 kg / 4.41 Lbs

Gross Weight:

2.1~2.4 kg / 4.63 ~ 5.29 Lbs

Packing Detail:

10 PCs

Measurement of Carton:

0.042 m³ / 1.49 Cuft