



**±48V DC Input Industrial PC AT
Switching Mode Power Supply**

Series	Model No.	Output Watts	Input Voltage	Input Voltage range	Polarity reverse protection
48	STC-48450AT	450W continuous	±48V DC	±37V ~ ±71V DC	Protected (Max.100V DC)
	STC-48400AT	400W continuous			
	STC-48350AT	350W continuous			
	STC-48300AT	300W continuous			

ENVIRONMENTAL CONDITIONS:

- ▶ Cooling: Forced Air-cooling, **80x80x25 mm Fan x 1(With Two Ball Bearings)**
- ▶ Fan brand: SUNON, DELTA, ADDA, NMB with the same specification
- ▶ Operating Temperature: 0°C~+50°C (-20°C~+60°C optional) 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 25A/300V UL Approved 3-Pin Terminal
- ▶ Input connection Make sure plug power source according to the label instruction.
- ▶ Input Current 8A/16A(450W) 7A/14.5A(400W) 6.3A/12.5A(350W) 5.5A/10.5A(300W)
@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		400W		350W		300W		
				Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	
+5V	±5%	±1%	±5%	0A	45A	0A	40A	0A	35A	0A	30A	50mV
+12V				0A	17.5A	0A	15A	0A	13A	0A	11A	120mV
-5V				0A	1A	0A	1A	0A	1A	0A	1A	50mV
-12V	±8%			0A	1A	0A	1A	0A	1A	0A	1A	120mV
Maximum continuous total DC output power shall not exceed				450		400		350		300		

OVERALL PERFORMANCE:

- ▶ Efficiency: 70% typical @48V DC Full Load
- ▶ 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):+5V, +12V DC

RELIABILITY:

- ▶ MTBF: 100,000 hours @max. Load, 48V DC & 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: 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:

P8 & P9	Motherboard 6 pin
HDD, DVD 4 Pins x 6	Molex 8981-04P or equivalent
FDD 4 Pins x 1	AMP 171822-4 or equivalent

Standard Output Cable Length:

530 mm / 20.87 Inches

Power Chassis Dimension:

140(L) x 150(W) x 86(H) mm / 5.51(L) x 5.9(W) x 3.39(H) Inches

Net Weight:

1.8 kg / 3.97 Lbs

Gross Weight:

2.0 kg / 4.4 Lbs

Packing Detail:

8 PCs

Measurement of Carton:

0.042 m³ / 1.49 Cuft