



**±48V DC Input Industrial PC ATX 2.01 & 2.03
PS2 Switching Mode Power Supply**

Series	Model No.	Output Watts	Input Voltage	Input Voltage range	Polarity reverse protection
48	STC-48750	750W continuous	±48V DC	±37V ~ ±71V DC	Protected (100V DC)
	STC-48700	700W continuous			Protected (100V DC)

* H version (Black color chassis)

ENVIRONMENTAL CONDITIONS:

► Cooling:	Forced Air-cooling, 80x80x25 mm Fan x 1 pc
► Fan type:	DC type, 2 x Ball Bearing, 4000 rpm, Optional Fan Control Card
► Fan Noise Level:	40 dBA (DELTA fan brand Official Data at 4000 rpm, 46.62 CFM) @ Full Load
► Fan Noise Level tested:	58 dBA @ Distance 1m (DELTA fan brand 4000 rpm, 46.62 CFM) @ Full Load
► Fan brand:	DELTA, NMB, SUNON, SUNON IP68 (for H version) with the same specification
► Operating Temperature:	0°C~+50°C Full Load
► Operating Temp. / H version	-20°C~+60°C Full Load
► Operating Humidity:	20%~85% RH Non condensing
► Operating Humidity: / H version	90% RH Non condensing
► Output power:	100% @ +50°C, 70% @ +60°C, 50% @ +70°C
► Output power: / H version	100% @ +60°C, 70% @ +65°C, 50% @ +70°C
► 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	100A/300V UL Approved Gold Plated Brass 1.2t/3-pin Terminal
► Input connector type	Make sure plug power source according to the label instruction
► Input Current	14A/26A(750W) 12.8A/24.6A(700W) @Full Load High Line & Low Line
► Inrush Current	Less than 50A Cold start @25°C ambient

DC OUTPUT CHARACTERISTICS:

Output Voltage	Regulation			Output Current				Ripple & Noise
	Load	Line	Cross	750W		700W		
				Min	Max	Min	Max	
+5V	±5%	±1%	±5%	0A	60A	0A	60A	50mV
+12V				0A	42A	0A	42A	120mV
+3.3V				0A	35A	0A	35A	50mV
-12V	±8%			0A	1A	0A	1A	120mV
+5VSB	±5%			0A	3A	0A	3A	50mV
Maximum continuous combined load on +3.3 V & +5V DC output shall not exceed				300		300		Wattage
Maximum continuous combined load on +3.3 V & +5V & 12V DC output shall not exceed				720		670		
Maximum continuous total DC output power shall not exceed				750		700		

OVERALL PERFORMANCE:

- Efficiency: 75% 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): +3.3V @4.5V, +5V @6V, +12V @15.6V

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: 1500V AC for 60 seconds
- Dielectric Withstand: INPUT to FRAME GROUND: 1500V AC for 60 seconds
- For Production: 100% Tested INPUT to frame GROUND: 1500V AC for 1 second
- Leakage Current: <0.005μA @48V DC

Output Device Connector Specific:

- ATX 24 Pin x 1 Molex 29-01-2240 or equivalent
- ATX 12V(P4) 4 Pin x 1 Molex 39-01-2040 or equivalent
- HDD, DVD 4 pin x 2 Molex 8981-04P or equivalent
- FDD 4 pin x 1 AMP 171822-4 or equivalent
- Serial ATA x 4 Molex 675820000 or equivalent
- CPU EPS 8 Pins x 2 Molex 39-01-2080 or equivalent
- PCIe (6+2) x 2

Standard Output Cable Length From Chassis:

530 mm / 20.87 inches

Power Chassis Dimension:

170(L) x 150(W) x 86(H) mm / 6.69(L) x 5.9(W) x 3.37(H) inches

Screw hole:

Front Panel with 4 screw holes
Rear Panel bracket with 2 screw holes

Net Weight:

3 kg / 6.6 lbs

Gross Weight:

3.45 kg /7.59 lbs

Packing Detail:

4 PCs

Measurement of Carton:

2.33 Cuft / 36 x 35 x 51 cm
G.W. 14kg