



±12V DC Input Industrial PC ATX 2.01 & 2.03 Switching Mode Power Supply

<u>Series</u>	<u>Model No.</u>	<u>Output Watts</u>	<u>Input Voltage</u>	<u>Input Voltage range</u>	<u>Polarity reverse protection</u>
12	STC-121500H	1500 W continuous	± 12VDC	±10VDC~ ±18VDC	Not Protected

ENVIRONMENTAL CONDITIONS:

- ▶ Cooling: Forced Air-cooling, **80x80x25 mm Fan x 2(With Two Ball Bearing)**
- ▶ Operating Temperature: **-20°C~+70°C**
- ▶ Output Power: **100% @ 50°C**
- ▶ Output Power: **70% @ 60°C**
- ▶ Output Power: **50% @ 70°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 (*) **220A thickness 1.0mm/ 1port for Positive Terminal/ 1port for Negative Terminal**
- ▶ Input Current **107A/192A(1500W) @Full Load High Line & Low Line**
- ▶ Inrush Current **Less than 200A Cold start @25°C ambient**

(*) Note: See pictures of Input Terminal Connector at the Bottom of this document

DC OUTPUT CHARACTERISTICS:

Output Voltage	Regulation			Output Current		Ripple & Noise
	Load	Line	Cross	1500W		
				Min	Max	
+5V	±1%	±1%	±5%	1A	35A	50mV
+12V				0A	123A	120mV
+3.3V				0A	35A	50mV
-12V				0A	1A	120mV
+5VSB	±5%			0A	4A	50mV
Maximum continuous combined load on +3.3 V & +5V DC output shall not exceed				175		Wattage
Maximum continuous total DC output power shall not exceed				1500		

OVERALL PERFORMANCE:

- ▶ Efficiency: **72% typical @12V 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): +5V@6V, +12V@15.6V & +3.3V@4.4V

RELIABILITY:

- ▶ MTBF: >90,000 hours @max. Load, 12V DC & 25°C ambient
- ▶ Safety Standards: Meet IEC60950-1, EN60950-1
- ▶ Safety Approved:
- ▶ EMI Compatibility (EMC): EN55022/EN5024/EN5032
- ▶ Dielectric Withstand: Input to Output: 500V DC for 1 second
- ▶ Dielectric Withstand: Input to Frame ground 500V DC for 1 second
- ▶ Leakage Current: <0.005uA @ 12V 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 8	Molex 8981-04P or equivalent
FDD 4 Pins x 1	AMP 171822-4 or equivalent
Serial ATA x2	Molex 675820000 or equivalent
Process EPS 8 Pins x 1	Molex 39-01-2080 or equivalent
PCIe x 6	

Standard Output Cable Length:

610 mm (24) Inches

PCB specific:

- ▶ Layers: 4
- ▶ Copper: 3 Oz
- ▶ Thickness: 1.6mm
- ▶ Material: FR4
- ▶ PCB material origin: Taiwan

Power Chassis Dimension:

370(W) x 150(L) x 86(H) mm / 14.57(W) x 5.9(L) x 3.39(H) Inches

Net Weight:

8 kg / 17.63 lbs

Packing Detail

2 PCs/ Carton
G.W. 18 kg / 39.67 lbs

Measurement of Carton

1.92 Cuft / 0.054 Cubic meter

Input Connector Terminal Pictures:

