



**±120V 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
120	STC-120800	800W continuous	±120V DC	±90V ~ ±145V DC	Protected (200V 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 6.4A/10.4A(**800W**) @Full Load High Line & Low Line
- ▶ Inrush Current Less than 20A Cold start @25°C ambient

DC OUTPUT CHARACTERISTICS:

Output Voltage	Regulation			Output Current		Ripple & Noise
	Load	Line	Cross	800W		
				Min	Max	
+5V	±5%	±1%	±5%	0A	60A	50mV
+12V				0A	42A	120mV
+3.3V				0A	35A	50mV
-12V	±8%			0A	0.3A	120mV
+5VSB	±5%			0A	3A	50mV
Maximum continuous combined load on +3.3 V & +5V DC output shall not exceed				205		Wattage
Maximum continuous total DC output power shall not exceed				800		

OVERALL PERFORMANCE:

- Efficiency: 83% typical @120V 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, 120V 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: 2000V AC for 60 seconds
- Dielectric Withstand: INPUT to FRAME GROUND: 2000V AC for 60 seconds
- For Production: 100% Tested INPUT to frame GROUND: 2000V AC for 1 second
- Leakage Current: <0.005µA @120V DC

Output Device Connector Specific:

- ATX 24 Pin x 1 Molex 29-01-2240 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 (4+4) x 2 Molex 39-01-2080 or equivalent
- PCIe (6+2) x 2

Standard Output Cable Length From Chassis:

530mm / 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:

3.5 kg /7.72 lbs

Packing Detail:

4 PCs

Measurement of Carton:

2.66 Cuft / 55 x 41.5 x 33 cm

G.W. 15kg