



±220V DC Input Industrial PC ATX 2.01 & 2.03 Switching Mode Power Supply

Series	Model No.	Output Watts	Input Voltage	Input Voltage range	Polarity reverse protection
220	STC-2201100	1100 W	±220V DC	±190V ~ ±250V DC	Not Protected

* 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, 6200 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 Temp.: 0°C~+50°C Full Load
- ▶ Operating Temp.: / **H version** -30°C~+60°C Full Load
- ▶ Output Power: 100% @ 50°C, 70% @ 60°C, 50% @ 70°C
- ▶ Output Power: / **H version** 100% @ 60°C, 70% @ 65°C, 50% @ 70°C
- ▶ Operating Humidity: 20%~85% RH (Non condensing)
- ▶ Operating Humidity / **H version** 95% 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 100A/300V UL Approved Gold Plated Brass 1.2t/3-pin Terminal
- ▶ Input Current 5A/6.6A(**1100W**) @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	1100W		
+5V	±5%	±1%	±5%	Min.	Max.	50mV
+12V				0A	23A	120mV
+3.3V				0A	80A	50mV
-5V				Optional	22A	50mV
-12V	±8%	±5%	±5%	Optional	Optional	50mV
+5VSB	±8%			0A	0.3A	120mV
				0A	3.5A	50mV
Maximum continuous combined load on +3.3 V & +5V DC output shall not exceed				30		Amps

OVERALL PERFORMANCE:

- ▶ Efficiency: 85% typical @220V 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: >90,000 hours @max. Load, 220V 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: 3000V AC for 60 seconds
- ▶ Dielectric Withstand: INPUT to FRAME GROUND: 3000V AC for 60 seconds
- ▶ For Production: 100% Tested INPUT to frame GROUND: 3000V AC for 1 second
- ▶ Leakage Current: <0.005μA @220V DC

Output Device Connector Specific:

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

Standard Output Cable Length:

610 mm / 24 Inches

PCB specific:

- ▶ Layers: 6
- ▶ Copper: 3 Oz each layer
- ▶ Thickness: 1.6 mm
- ▶ Material: FR4
- ▶ PCB material origin: Taiwan

Power Chassis Dimension:

200(L) x 150(W) x 86(H) mm / 7.87(L) x 5.9(W) x 3.39(H) Inches

Net Weight:

3.8 kg / 8.38 lbs

Gross Weight:

4 kg / 8.818 lbs

Packing Detail:

4 PCs
GW 15.6 kg

Measurement of Carton:

36 x 35 x 51 cm
0.066 m3 / 2.33 Cuft