



**220V DC Input Industrial PC PS2  
ATX Form Factor  
FANLESS  
Switching Mode Power Supply**

Series	Model No.	Output Watts	Input Voltage	Input Voltage range
<b>220</b>	STC-220300M	300W continuous	±220V DC	±295V ~ ±264V DC

**ENVIRONMENTAL CONDITIONS:**

- ▶ Cooling: Convection cooling
- ▶ Operating Temperature: -10°C~+55°C (Full Load)
- ▶ Operating Humidity: 20%~90% RH. (Non condensing)
- ▶ Storage Temperature: -20°C~+95°C
- ▶ Storage Humidity: 10%~95% RH. (Non condensing)
- ▶ Operating Altitude: 10M Below Sea level to 3000M Above Sea level

**DC INPUT CHARACTERISTICS:**

- ▶ Input connector type 50A/300V UL Approved Gold Plated Brass 1.2t/3-pin Terminal
- ▶ Input Current 1.36A/1.85A(300W) @Full Load High line & Low Line
- ▶ Inrush Current Less than 90A Cold start @25°C ambient

**DC OUTPUT CHARACTERISTICS:**

Output Voltage	Regulation			Output Current		Ripple & Noise
	Load	Line	Cross	300W		
+5V	±5%	±1%	±5%	Min	Max	50mV
+12V				1.5A	30A	120mV
+3.3V				0.2A	20A	50mV
-5V				0A	15A	50mV
-12V				0A	0A	50mV
+5VSB	±8%			0A	0.8A	120mV
	±5%			0A	3A	50mV
Maximum continuous combined load on +3.3 V & +5V DC output shall not exceed				150		Wattage
Maximum continuous combined load on +3.3 V & +5V & 12V DC output shall not exceed				270		
Maximum continuous total DC output power shall not exceed				300		

**OVERALL PERFORMANCE:**

- ▶ Efficiency: 80% 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: 2500V DC for 60 seconds
- ▶ Dielectric Withstand: INPUT to FRAME GROUND: 2500V DC for 60 seconds
- ▶ Leakage Current: <0.005μA @ 220V 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 4	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 8(6+2) Pin x 1	

**Standard Output Cable Length:**

520 mm / 20.47 inches

**Power Chassis Dimension:**

170(L) x 150(W) x 86(H) mm / 6.7(L) x 5.9(W) x 3.39(H) Inches

**Net Weight:**

3 kg / 6.61 lbs

**Gross Weight:**

3.5 kg / 7.71 lbs

**Packing Detail:**

6 PCs

**Measurement of Carton:**

0.046 m<sup>3</sup> / 1.61 Cuft