



±24V 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
24	STC-241100	1100 W continuous	±24V DC	±18V ~ ±36V DC	Not Protected

ENVIRONMENTAL CONDITIONS:

- ▶ Cooling: Forced Air-cooling, **80x80x25 mm Fan x 2(With Two Ball Bearing)**
- ▶ Noise Level: 70dBA @ Full Load
- ▶ Operating Temperature: 0°C~+50°C (-20°C~+60°C, H version is optional) Full Load
- ▶ Output Power: 100% @ 50°C
- ▶ Output Power: 70% @ 60°C
- ▶ Output Power: 50% @ 70°C
- ▶ Operating Humidity: 20%~85% RH. (Non condensing) (95% RH optional)
- ▶ 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 40A/79A(1100W) @Full Load High Line & Low Line
- ▶ Inrush Current Less than 90A 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	1100W		
+5V	±3%	±1%	±5%	Min	Max	
+12V				0A	35A	
+3.3V				0A	35A	
-5V				Optional	Optional	
-12V	±8%			0A	1A	
+5VSB	±5%			0A	4A	
+3.3 V & +5V & 12VDC all individual transformer. Max. output current as specification						Wattage
Maximum continuous total DC output power shall not exceed				1100		

OVERALL PERFORMANCE:

- ▶ Efficiency: 80% typical @24V 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@4.4V, +5V@6V, +12V@15.6V

RELIABILITY:

- ▶ MTBF: >90,000 hours @max. Load, 24V 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: 500V DC for 60 seconds
- ▶ Dielectric Withstand: INPUT to FRAME GROUND: 500V DC for 60 seconds
- ▶ Leakage Current: <0.0005µA @ 24V 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 2	Molex 8981-04P or equivalent
FDD 4 Pins x 2	AMP 171822-4 or equivalent
Serial ATA x 8	Molex 675820000 or equivalent
Process EPS 8 Pins x 1	Molex 39-01-2080 or equivalent
PCIe x 4	

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:

270(W) x 150(L) x 86(H) mm / 10.63(W) x 5.9(L) x 3.39(H) Inches

Net Weight:

4.7 kg / 10.36 lbs

Gross Weight:

5.3 kg / 11.68 lbs

Packing Detail

2 PCs / Carton
N.W. 10.8 kg / 23.8 lbs
G.W. 11.8 kg / 26.0 lbs

Measurement of Carton

0.045 m³ / 1.58 Cu. Ft

Input Connector Terminal Pictures:

