



±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 1 pc
- ▶ Fan type: DC type, 2 x Ball Bearing, 6200 rpm, Optional Fan Control Card
- ▶ Fan brand: DELTA, NMB, SUNON, SUNON IP68 (for H version). Specifications are equivalent
- ▶ Operating Temperature: 0°C~+50°C (-30°C~+60°C Optional H version) Full Load
- ▶ Output Power: 100%@50°C, 70%@60°C, 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: 200A/300V UL Approved Gold Plated Brass 2 Pin 12.5mm Screw Terminal
- ▶ Input Current: 40A/79A(1100W) @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 | 1100W | | |
| | | | | Min. | Max. | |
| +5V | ±5% | ±1% | ±5% | 0A | 35A | 50mV |
| +12V | | | | 0A | 92A | 120mV |
| +3.3V | | | | 0A | 35A | 50mV |
| -12V | ±8% | | | 0A | 1A | 120mV |
| +5VSB | ±5% | | | 0A | 4A | 50mV |
| The output current of combined load on +3.3 V & +5V DC output shall not exceed | | | | 30A | | Amps |
| Maximum continuous total DC output power shall not exceed | | | | 1100 | | Wattage |

OVERALL PERFORMANCE:

- ▶ Efficiency: 75% 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@4.5V, +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: <0.005µA @ 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 |
| Processor EPS 8 Pins x 2 | Molex 39-01-2080 or equivalent |
| PCIe 6 + 2 pin x 4 (Max Optional 10 sets) | |

Standard Output Cable Length:

610 mm / 24 Inches

PCB specific:

- ▶ 8 Layer 1.78mm
- ▶ Copper: 3 Oz each layer
- ▶ Thickness: 1.6 mm
- ▶ Material: FR4
- ▶ PCB material origin: Taiwan

Power Chassis Dimension:

225(L) x 150(W) x 86(H) mm / 8.86(L) x 5.9(W) x 3.39(H) Inches

Net Weight:

4.3 kg / 9.479 lbs

Gross Weight:

4.8 kg / 10.582 lbs

Packing Detail:

2 PCs
GW 10.8 kg

Measurement of Carton:

41 x 28 x 41 cm
0.047 m³ / 1.66 Cuft