



±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-24850	850 W	±24V DC	±18V ~ ±36V DC	Not Protected

ENVIRONMENTAL CONDITIONS:

- ▶ Cooling: Forced Air-cooling, **80x80x25 mm Fan x 2 pcs**
- ▶ Fan type: DC type, 2 x Ball Bearing, 6200 rpm, Optional Fan Control Card
- ▶ Fan brand: SUNON, DELTA, ADDA, NMB with the same specification
- ▶ Operating Temperature: **0°C~+50°C (-20°C~+60°C Optional) 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 54A/110A(850W) @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	850W		
+5V	±5%	±1%	±5%	Min.	Max.	50mV
+12V				0A	30A	120mV
+3.3V				0A	30A	50mV
-5V				Optional	Optional	50mV
-12V	±8%			0A	1A	120mV
+5VSB	±5%			0A	3,5A	50mV
Maximum continuous combined load on +3.3 V & +5V DC output shall not exceed				250		Wattage
Maximum continuous combined load on +3.3 V & +5V & 12V DC output shall not exceed				820		
Maximum continuous total DC output power shall not exceed				850		

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
Process EPS 8 Pins x 1	Molex 39-01-2080 or equivalent
PCIe x 2	

Standard Output Cable Length:

530 mm / 20.87 Inches

Power Chassis Dimension:

184(L) x 150(W) x 86(H) mm / 7.24(L) x 5.9(W) x 3.39(H) Inches

Net Weight:

3.5 kg / 7.716 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