



±12V 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
12	STC-12650	650 W	±12VDC	±9VDC~ ±18VDC	Not Protected

ENVIRONMENTAL CONDITIONS:

- ▶ Cooling: Forced Air-cooling, **80x80x25 mm Fan x 2PCs (With Two Ball Bearing)**
- ▶ Operating Temperature: **0°C~+50°C(-20°C~+60°C Optional)**
- ▶ 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(650W) @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	650W		
				Min.	Max.	
+5V	±1%	±1%	±5%	0A	30A	50mV
+12V				0A	45A	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 & 12VDC output shall not exceed				570		
Maximum continuous total DC output power shall not exceed				650		

OVERALL PERFORMANCE:

- ▶ Efficiency: **65% typical @12V 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): +5V, +12V & +3.3V

RELIABILITY:

- ▶ MTBF: >90,000 hours @max. Load, 12V DC & 25°C ambient

▶ Safety Standards:	Meet IEC60950-1, EN60950-1
▶ Safety Approved:	
▶ EMI Compatibility (EMC):	FCC Part 15 Class A, CISPR22 (EN55022) Class A (CE mark)
▶ Dielectric Withstand:	Input to Output: 500Vdc for 1 second
▶ Dielectric Withstand:	Input to Frame ground 500Vdc for 1 second
▶ Leakage Current:	<0.005uA @ 12Vdc

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 8	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 x 2	

Standard Output Cable Length:

530 mm
20.87 Inches

Power Chassis Dimension:

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

Net Weight:

3.5kg
7.716 lbs

Gross Weight:

4 kg
8.818 lbs

Packing Detail:

4 PCs

Measurement of Carton:

2.3 Cuft