



±120V DC Input Industrial PC AT Switching Mode Power Supply

Series	Model No.	Output Watts	Input Voltage	Input Voltage range	Polarity reverse protection
120	STC-120450AT	450W continuous	±120V DC	±95V ~ ±150V DC	Protected (Max.200V DC)
	STC-120400AT	400W continuous			
	STC-120350AT	350W continuous			
	STC-120300AT	300W continuous			

ENVIRONMENTAL CONDITIONS:

- ▶ Cooling: Forced Air-cooling, **80x80x25 mm Fan x 1 (With Two Ball Bearings)**
- ▶ Fan brand: SUNON, DELTA, ADDA, NMB with the same specification
- ▶ Operating Temperature: 0°C~+50°C (-20°C~+60°C optional) Full Load
- ▶ 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 25A/300V UL Approved 3-Pin Terminal
- ▶ Input connection Make sure plug power source according to the label instruction.
- ▶ Input Current 4A/6A(450W) 3.5A/5.5A(400W) 3A/5A(350W) 2.5A/4A(300W)
@Full Load High Line & Low Line
- ▶ Inrush Current Less than 15A Cold start @25°C ambient

DC OUTPUT CHARACTERISTICS:

Output Voltage	Regulation			Output Current								Ripple & Noise
	Load	Line	Cross	450W		400W		350W		300W		
				Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	
				0A	45A	0A	40A	0A	35A	0A	30A	
				0A	17.5A	0A	15A	0A	13A	0A	11A	
+5V	±5%	±1%	±5%	0A	1A	0A	1A	0A	1A	0A	1A	50mV
+12V				0A	1A	0A	1A	0A	1A	120mV		
-5V				0A	1A	0A	1A	0A	1A	50mV		
-12V	±8%			0A	1A	0A	1A	0A	1A	120mV		
Maximum continuous total DC output power shall not exceed				450		400		350		300		

OVERALL PERFORMANCE:

- ▶ Efficiency: 75% typical @120V DC Full Load
- ▶ 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 DC

RELIABILITY:

- ▶ MTBF: 100,000 hours @max. Load, 120V 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: 2000V DC for 60 seconds
- ▶ Dielectric Withstand: INPUT to FRAME GROUND: 2000V DC for 60 seconds
- ▶ Leakage Current: <0.005μA @120V DC

Output Device Connector Specific:

P8 & P9	Motherboard 6 pin
HDD, DVD 4 Pins x 6	Molex 8981-04P or equivalent
FDD 4 Pins x 1	AMP 171822-4 or equivalent

Standard Output Cable Length:

530 mm / 20.87 Inches

Power Chassis Dimension:

140(L) x 150(W) x 86(H) mm / 5.51(L) x 5.9(W) x 3.39(H) Inches

Net Weight:

1.8 kg / 3.97 Lbs

Gross Weight:

2.0 kg / 4.4 Lbs

Packing Detail:

8 PCs

Measurement of Carton:

0.042 m³ / 1.49 Cuft