



**±120V DC Input Industrial PC ATX 12V 2.03
1U Switching Mode Power Supply
83mm WIDE**

Series	Model No.	Output Watts	Input Voltage	Input Voltage range	Polarity reverse protection
120	STC-120450II	450 W	±120V DC	±90V ~ ±140V DC	Protected (Max.150V DC)

* H version (Black color chassis)

ENVIRONMENTAL CONDITIONS:

▶ Cooling:	Forced Air-cooling, 40x40x28mm Fan x 1 (With Two Ball Bearing)
▶ Fan brand:	DELTA, NMB, SUNON, SUNON IP68 (for H version) with the same specification
▶ Operating Temp.:	0°C~+50°C Full Load
▶ Operating Temp.: / H version	-20°C~+60°C 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 Above Sea level 3000M

DC INPUT CHARACTERISTICS:

▶ Input connector type	40A/ 300V Single table type Terminal x 2
▶ Input Current	4.17A/6.5A(450W) @ Full Load High Line & Low Line
▶ Inrush Current	Less than 20A Cold start @25°C ambient

DC OUTPUT CHARACTERISTICS:

Output Voltage	Regulation			Output Current		Ripple & Noise
	Load	Line	Cross	450W		
				Min.	Max.	
+5V	±5%	±1%	±5%	0A	40A	50mV
+12V				0A	30A	120mV
+3.3V				0A	22A	50mV
-12V				0A	0.3A	120mV
+5VSB	±5%			0A	2.5A	50mV
Maximum continuous combined load on +3.3 V & +5V & 12V DC output shall not exceed				420		Wattage
Maximum continuous total DC output power shall not exceed				450		

OVERALL PERFORMANCE:

▶ Efficiency	70% typical @ 120V 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: >80,000 hours @max. Load, 120V DC & 25°C ambient
- ▶ Safety Standards: Meet IEC60950-1 and 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:

- ▶ 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 7 Molex 8981-04P or equivalent
- ▶ FDD 4 Pins x 1 AMP 171822-4 or equivalent
- ▶ Serial ATA x 2 Molex 675820000 or equivalent
- ▶ CPU EPS 8 Pins x 1 Molex 39-01-2080 or equivalent
- ▶ PCIe 6 + 2 Pins x 1

Standard Output Cable Length From Chassis:

600 mm ±20mm / 23.6 inches

Power Chassis Dimension:

250(L) x 83(W) x 40(H) mm / 9.84(L) x 3.27(W) x 1.57(H) inches

Net Weight:

2 kg / 4.41 Lbs

Gross Weight:

2.1~2.4 kg / 4.63 ~ 5.29 Lbs

Packing Detail:

10 PCs

Measurement of Carton:

0.042 m³ / 1.49 Cuft