



±365V 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
365	STC-3651300	1300 W continuous	±365V DC	±300V ~ ±420V DC	Not Protected

* H version (Black color chassis)

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 Noise Level:	70dBA @ Full Load
► Fan brand:	DELTA, NMB, SUNON, SUNON IP68 (for H version). Specifications are equivalent
► Operating Temp.:	0°C~+50°C Full Load
► Operating Temp.: / H version	-30°C~+60°C Full Load
► Output Power:	100% @ 50°C, 70% @ 60°C, 50% @ 70°C
► Output Power: / H version	100% @ 60°C, 70% @ 65°C, 50% @ 70°C
► Operating Humidity:	20%~85% RH (Non condensing)
► Operating Humidity / H version	95% 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 (*)	High Voltage 2103124-1 type, contact width 2.8mm, thickness 0.8mm, pitch 10.4mm 1port for Positive Terminal/ 1port for Negative Terminal
► Input Current	3.55A/5A(1300W) @Full Load High Line & Low Line
► Inrush Current	Less than 60A Cold start @25°C ambient

(*) Note: See pictures of Input Terminal Connector at the Bottom of this document

DC OUTPUT CHARACTERISTICS:

Output Voltage	Regulation			Output Current		Ripple & Noise
	Load	Line	Cross	1300W		
+5V	±3%	±1%	±5%	Min	Max	
+12V				1A	35A	50mV
+3.3V				0.5A	92A	120mV
-12V	0A			22A	50mV	
+5VSB	±8%			0A	0.3A	120mV
	±5%			0A	4A	50mV
Maximum continuous combined load on +3.3 V & +5V DC output shall not exceed				175		Wattage
Maximum continuous total DC output power shall not exceed				1300		

OVERALL PERFORMANCE:

- ▶ Efficiency: 85% typical @365V 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@4.4V, +5V@6V, +12V@15.6V

RELIABILITY:

- ▶ MTBF: >90,000 hours @max. Load, 365V 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: 4000V DC for 60 seconds
- ▶ Dielectric Withstand: INPUT to FRAME GROUND: 4000V DC for 60 seconds
- ▶ Leakage Current: <0.005μA @ 365V DC

Output Device Connector Specific:

- ▶ ATX 24 Pins x 1 Molex 29-01-2240 or equivalent
- ▶ HDD, DVD 4 Pins x 2 Molex 8981-04P or equivalent
- ▶ FDD 4 Pins x 1 AMP 171822-4 or equivalent
- ▶ Serial ATA x 8 Molex 675820000 or equivalent
- ▶ CPU EPS 8 Pins x 2 Molex 39-01-2080 or equivalent
- ▶ CPU EPS 4 Pins x 1 Molex 39-01-2040 or equivalent
- ▶ PCIe x 10

Standard Output Cable Length:

610 mm / 24 Inches

PCB specific:

- ▶ Layers: 4
- ▶ Copper: 3 Oz
- ▶ Thickness: 1.6 mm
- ▶ Material: FR4
- ▶ PCB material origin: Taiwan

Power Chassis Dimension:

400(L) x 150(W) x 86(H) mm / 15.75(L) x 5.9(W) x 3.39(H) Inches

Packing Detail

1 pcs / Carton N.W. 6 kg, G.W. 6.7 kg
2 pcs / Carton N.W. 12 kg, G.W. 14.7 kg

Measurement of Carton

1 pcs / Carton 54 x 31 x 20 cm
2 pcs / Carton 56 x 32 x 42 cm