

±220V DC Input Industrial PC PS2 4U ATX Switching Mode Hot Swap Mini Redundant Power Supply

Series	Model No.	Output Watts	Input Voltage	Input Voltage range	Polarity reverse protection
220	STC-220750RD	750 W continuous	±220V DC	±190V ~ ±260V DC	By fuse

ENVIRONMENTAL CONDITIONS:

- Cooling: Forced Air-cooling, 40x40x28 mm Fan x 2 (With Two Ball Bearing)
- Fan brand: DELTA, NMB, SUNON, SUNON IP68 (for H version) with equivalent specifications
- Operating Temperature: 0°C~+50°C (Full Load)
- Output Power:: 100% @ 50°C, 70% @ 60°C
- Operating Humidity: 20%~85% RH. (No condensing) (95% Optional)
- Storage Temperature: -20°C~+80°C
- Storage Humidity: 10%~90% RH. (No condensing)
- Operating Altitude: 10M Below Sea level to 3000M Above Sea level

DC INPUT CHARACTERISTICS:

- Input connector type 30A//300V UL Approved Gold Plated Brass 1.2f/2 Terminal
- Input Current 3.4A/4.65A(**750W**) @ Full Load High Line & Low Line
- Inrush Current Less than 50A Cold start @ 25°C ambient

DC OUTPUT CHARACTERISTICS:

Output Voltage	Regulation			Output Current 750W		Ripple & Noise
	Load	Line	Cross	Min.	Max.	
+5V	±5%	±1%	±5%	1A	35A	50mV
+12V				1A	50A	120mV
+3.3V				0.5A	22A	50mV
-12V	±8%			0A	0.3A	120mV
-5V (Optional)	±5%			0A	0.5A	50mV
+5VSB	±5%			0A	3.5A	50mV
Maximum continuous combined load on +3.3 V & +5V DC output shall not exceed				**175**		**Wattage**
Maximum continuous combined load on +3.3 V & +5V and 12V DC output shall not exceed				**720**		
Maximum continuous total DC output power shall not exceed				**750**		

OVERALL PERFORMANCE:

- Efficiency: 82% typical @ 220V DC Full Load
- Hold up time Output voltage stays regulated for at least 16ms with 100% load after loss of DC input
- Rise time Output voltage rise from 10% to 90% with full load shall be in 20ms maximum
- 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 110~160% of continuous rated power (shutdown and latch off)

- Over Voltage Protection (OVP): +3.3V @3.6V~4.3V DC, +5V @5.5V~6.5V DC, +12V @13.2~15.6V DC

RELIABILITY:

- MTBF: 100,000 hours @ Max. Load, 220V 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: 2500V DC for 60 seconds
- Dielectric Withstand: INPUT to FRAME GROUND: 2500V DC for 60 seconds
- Leakage Current: <0.005μA @ 220 V DC

LED indicator:

Power module 1 Green LED when power on
Power module 2 Green LED when power on

Alarm function:

In the rear panel with power failure alarm signal to indicate when power failure wire.

Alarm reset switch

To rest by a switch

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 4 Molex 8981-04P or equivalent
- FDD 4 Pins x 1 AMP 171822-4 or equivalent
- Serial ATA x 4 Molex 675820000 or equivalent
- CPU EPS 8 Pins x 1 Molex 39-01-2080 or equivalent
- PCIE x 3

Standard Output Cable Length:

500 mm / 19.68 Inches

PCB specific:

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

Power Chassis Dimension:

225(L) x 150(W) x 86(H) mm / 8.86(L) x 5.9(W) x 3.39(H) Inches

Rackmount Chassis solution:

4U IPC Chassis 510mm Model No. GHI419ATX

Screw hole:

Front panel with 4 screw holes
Rear panel bracket with 2 screw holes

Net Weight:
4.8 kg / 10.85 lbs

Gross Weight:
6 kg / 13.22 lbs

Packing Detail:
2 pcs
12 kg / 26.45 lbs

Measurement of Carton:
0.045 m3 / 1.59 Cuft

Note:
Power Supply is not able to be used in stand alone application
Use Power Supply in Power Chassis Assembly only