



**±24V 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
24	STC-24500RD	500 W continuous	±24V DC	±18V ~ ±36V DC	Max 60V DC

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. (Non condensing) (95% Optional)
▶ 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	30A/300V UL Approved Gold Plated Brass 1.2f/2 Terminal
▶ Input Current	17.4A/34.7A(500W) @ Full Load High Line & Low Line
▶ Inrush Current	Less than 50A Cold start @ 25°C ambient

DC OUTPUT CHARACTERISTICS:

Output Voltage	Regulation			Output Current		Ripple & Noise
	Load	Line	Cross	500W		
				Min.	Max.	
+5V	±5%	±1%	±5%	1A	35A	50mV
+12V				1A	40A	120mV
+3.3V				0.5A	22A	50mV
-5V (optional)				0A	0.5A	50mV
-12V	±8%	±1%	±5%	0A	0.3A	120mV
+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				470		
Maximum continuous total DC output power shall not exceed				500		

OVERALL PERFORMANCE:

▶ Efficiency:	75% typical @ 24V DC Full Load
▶ Hold up time:	When power shut down DC output 5V must be maintain 1ms @24V DC
▶ 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 @3.6V~4.3V DC , +5V @5.5V~6.5V DC, +12V @13.2~15.6V DC

RELIABILITY:

- ▶ MTBF: 100,000 hours @ Max. Load, 24V DC & 25°C ambient
- ▶ Safety Standards: Meet IEC60950-1, TÜV 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: 500V DC for 60 seconds
- ▶ Dielectric Withstand: INPUT to FRAME GROUND: 500V DC for 60 seconds
- ▶ Leakage Current: <0.005μA @ 24 VDC

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 reset by 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 2 Molex 675820000 or equivalent
- ▶ CPU EPS 8 Pins x 1 Molex 39-01-2080 or equivalent
- ▶ PCIE x 2

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