

# PS3022 PS2 Type 550W Mini Redundant Power Supply

勤創電子股份有限公司



Dimension: 150 (W) x 85 (H) x 199 (D) mm

- ★ 500W+500W Redundant Output
- ★ Hot-Swap / Hot-Plug Application
- ★ ATX12V / ERP12V Application
- ★ For PS2 Pedestal / 4U System
- ★ Backward Compatibility / -5V Available
- ★ No Mini. Load Limit, Best for Storage System

## Features

- ★ Universal Input, active PFC
- ★ Meet latest ATX12V / ERP12V ver.
- ★ Backward Compatibility, -5V available
- ★ Hot-Swap / Hot-Plug Application
- ★ Automatic Thermal Control(Fan Speed)
- ★ Industrial DIN-Connector for Reliability
- ★ No Mini. Load Limit, Best for Storage
- ★ Remote Sense on +5V, +3.3V & +12V
- ★ Power Failure Alarm & Signals
- ★ OVP (Over Voltage Protection)/Module
- ★ UVP (Under Voltage Protection)
- ★ OCP (Over Current Protection)/Module
- ★ OPP (Over Power Protection)
- ★ OTP (Over Temperature Protection)
- ★ External OCP (Over Current Protection)
- ★ SCP (Short Circuit Protection)
- ★ MTBF > 100,000 Hours

## General Specifications

- ★ Input Voltage Range: 100-240V ± 10%
- ★ Power Factor: 0.95 min. at full Load
- ★ Efficiency: 74% at full Load
- ★ Hold up Time 17ms min., at full Load
- ★ Power Good: 100-500ms, TTL Signal
- ★ PSON(Remote ON/OFF):TTL Signal
- ★ Operating Temperature: 0~40°C
- ★ Operating Humidity: 20~90%
- ★ Fan Size: 40 x 40 x 20mm

## Agency Requirements

Harmonic: EN61000-3-2  
EMI/RFI: CE, FCC class B, BSMI  
CISPR class B  
Safety: UL, cUL, CB, TÜV ,CCC

## Application

- ★ Industrial PC
- ★ Workstation
- ★ Server
- ★ Storage System
- ★ Rackmount
- ★ Redestal Tower Chassis

## Electrical Specification

Regulation, Ripple & Noise

Item / Output	+5V	+3.3V	+12V1	+12V2	+12V3	+12V4	+12V5	-5V	-12V	5Vsb
Load Regulation	±5%	±5%	±5%	--	--	--	--	±10%	±5%	±5%
Cross Regulation	±5%	±5%	±5%	--	--	--	--	±10%	±5%	±5%
Line Regulation	±1%	±1%	±1%	--	--	--	--	±1%	±1%	±1%
Ripple & Noise	50mV	50mV	120mV	--	--	--	--	100mV	120mV	50mV

Note: Single rail for +12V output relates to +12V1 only.

## Input / Output Ratings

Model	Input (AC)			Output (DC)											
	Voltage	Frequency	Current	Watt	Load	+5V	+3.3V	+12V1	+12V2	+12V3	+12V4	+12V5	-5V	-12V	5Vsb
PS3022	100-240V	47-63 Hz	8-4A	550W	Max.	30A	24A	41A	--	--	--	--	0.5A	1A	2A
					Min.	0A	0A	0A	--	--	--	0A	0A	0.1A	
					Max. Comb.	↔ 180W ↔		↔ 492W ↔				2.5W	12W	10W	

Note: 1. Total DC Output should not exceed 550W  
2. Noise bandwidth is from DC to 20MHz

Mechanical Drawing

