# Twins PRO Series

500W / 700W / 900W

Introduction

Twins series, a redundant power supply, is designed for standard ATX or PS2 chassis, no front end bracket needed, ideal for mail, web or home server. Hot swappable modules design provides stable power supply: when one fails, the other can take over the load immediately. Thus users do not need to worry about any server/PC power off situation.

Features
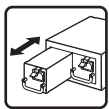
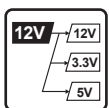**Hot Swappable Modules**
No worry about power off

FSP Guardian
User Interface Software
Monitoring real status immediately

Ribbon Cable
Space-saving installation

DC to DC Module Design
Providing high efficient, stable power

· ATX PS2 redundant size, no front end bracket needed, ideal for mail, web and home server
· Digital-controlled power supply design can be monitored by "FSP Guardian " software
· Hot swappable modules design and no worry about server/PC power off when one of modules failure
· Complete protection: over current protection, short circuit protection, over voltage protection, fan failure protection
· Alarm guard design by smart power supply status LED indicator
· Complies with ATX 12V and EPS 12V standards
· Compliance with IEC 62368
· Flat ribbon cables, ideal solution for applications with space constraint issue

Product Overview

Built-in hot swappable modules
When a component fails and the redundant unit takes over, the bad one can be replaced without stopping the operation.

Stable power supply provider
Different form PC power supply, during normal operation, the two modules share the load for optimum efficiency; while one fails, the other will immediately take over the whole load to guarantee the system under a stable power supply situation.

Power Cord Lock device

Ideal for home, mail or web server system
Twins series is an ATX PS2 size redundant. Without front end bracket, it is an ideal power supply for a home cloud server system or small and medium-sized enterprises' (SMEs') web server or mail server system.

User Interface

FSP Guardian Software
Desktop monitoring and control software

Connect the USB of Twins PRO 500W, 700W and 900W to a motherboard USB header, you can use FSP Guardian software to monitor power input, power output, efficiency, and other internal records in real time or get historical data within 30 days. When power input or output reaches the warning points during the process, FSP Guardian will immediately shows warning information message to remind users the latest situation of Twins PRO 500W, 700W and 900W.

Rating

500W **Frame** Model No.: FSP500-50RAB

AC Input	100-240V~ 8-4A 60-50Hz				
DC Output	+3.3V	+5V	+12V1	-12V	+5Vsb
Max Output Current	20A	20A	41.76A	0.5A	3A
Max Combined Power	130W				
Total Power	500W				

Single Module Model No.: FSP520-20RAB

AC Input	100-240V~ 8-4A 60-50Hz	
DC Output	+12V ⎓ 43.3A	+5Vsb ⎓ 3.0A
Total Power	520W	

700W **Frame** Model No.: FSP700-50RAB

AC Input	100-240V~ 10-5A 60-50Hz				
DC Output	+3.3V	+5V	+12V1	-12V	+5Vsb
Max Output Current	20A	20A	58.3A	0.5A	3A
Max Combined Power	130W				
Total Power	700W				

Single Module Model No.: FSP720-20RAB

AC Input	100-240V~ 10-5A 60-50Hz	
DC Output	+12V ⎓ 60A	+5Vsb ⎓ 3.0A
Total Power	720W	

900W **Frame** Model No.: FSP900-50REB

AC Input	100-240V~ 10-6A 60-50Hz				
DC Output	+3.3V	+5V	+12V1	-12V	+5Vsb
Max Output Current	20A	20A	75A	0.5A	3A
Max Combined Power	130W				
Total Power	900W				

Single Module Model No.: FSP930-20REB
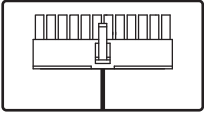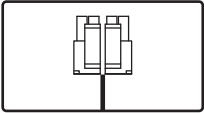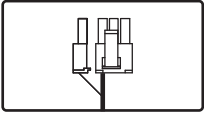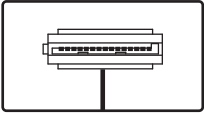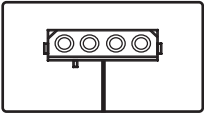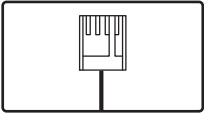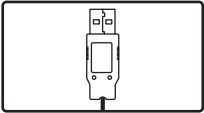
AC Input	100-240V~ 10-6A 60-50Hz	
DC Output	+12V ⎓ 77.5A	+5Vsb ⎓ 3.0A
Total Power	930W	

Specifications

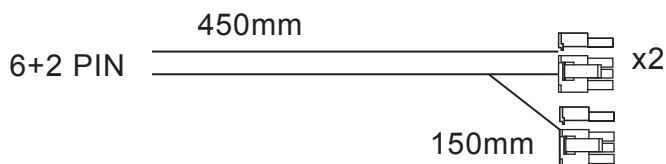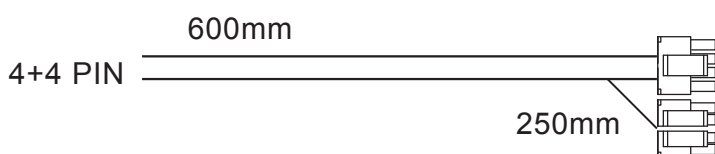| Model	Frame: FSP500-50RAB Single Module: FSP520-20RAB	Frame: FSP700-50RAB Single Module: FSP720-20RAB	Frame: FSP900-50REB Single Module: FSP930-20REB
Type	PS2 ATX Redundant	PS2 ATX Redundant	PS2 ATX Redundant
PFC	Active PFC	Active PFC	Active PFC
Input Voltage	100-240 Vac	100-240 Vac	100-240 Vac
Input Current	8-4A	10-5A	10-6A
Input Frequency	60-50 Hz	60-50 Hz	60-50 Hz
Output Capacity	500W	700W	900W
Max. Output Power	500W	700W	900W
Fan Type	Dual ball bearing fan, 40 mm		
Efficiency	90%		
MTBF	100,000 Hrs.		
Protection	Over current protection, Short circuit protection, Over voltage protection, Fan failure protection, Over Power Protection, Under Voltage Protection, Over Temperature Protection		
Weight	2.954 kg (power cord not included)		
Dimension(L×W×H)	150 x 86 x 190 mm ; 5.91 x 3.39 x 7.48 inch		

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Connectors

	500W	700W	900W
24 PIN	1	1	1
4+4 PIN	2	2	2
6+2 PIN	4	4	4
SATA	6	6	6
MOLEX	2	2	2
FLOPPY	1	1	1
USB 8 Pin	1	1	1

FSP Twins PRO Series

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Cable Length

500W / 700W / 900W

24 PIN — 600mm

4+4 PIN — 600mm / 250mm

6+2 PIN — 450mm / 150mm ×2

SATA / MOLEX — 450mm / 155mm / 155mm / 155mm

SATA — 450mm / 155mm / 155mm / 155mm

FLOPPY — 100mm

USB 8 Pin — 500mm
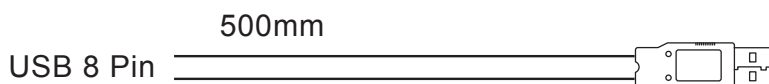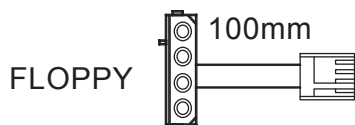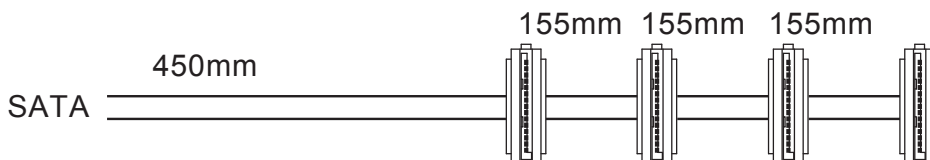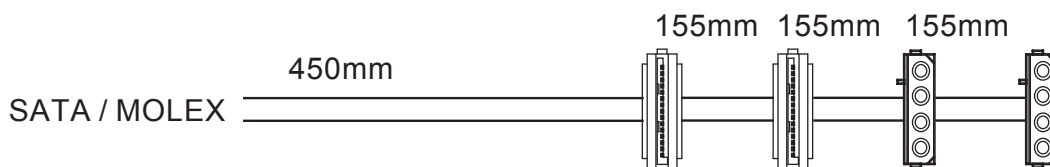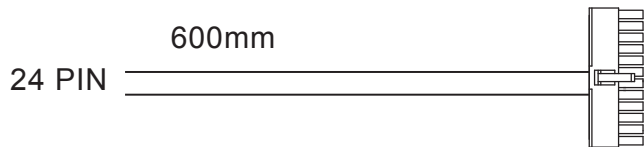
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Package Information

Model	FSP500-50RAB	FSP700-50RAB	FSP900-50REB
EAN Code	471322452309 0	471322452310 6	471322452382 3
UPC Code	84568501083 4	84568501084 1	84568501104 6
Shipping Dimension (L×W×H)	350 x 235 x 268 mm		
Shipping Weight	2.925 kg	3.003 kg	3.08 kg
Master Pack Dimension (L×W×H)	500 x 380 x 290 mm		
Master Pack Quantity	2 pcs middle cartons in master carton		
Master Pack Weight	3.493 kg	3.502 kg	3.64 kg
Pallet Quantity	64 pcs		
Country of Origin	China		
Warranty	5 Years		
Additional Information	**900W** https://www.fsplifestyle.com/en/product/TwinsPRO900W.html **700W** https://www.fsplifestyle.com/en/product/TwinsPRO700W.html **500W** https://www.fsplifestyle.com/en/product/TwinsPRO500W.html		

Single Module for Replacement

Model	FSP520-20RAB	FSP720-20RAB	FSP930-20REB
EAN Code	471322452363 2	471322452364 9	471322452483 7
UPC Code	84568501094 0	84568501095 7	84568501141 1
Shipping Dimension (L×W×H)	282 x 92 x 115 mm		
Shipping Weight	1.09 kg		
Master Pack Dimension (L×W×H)	505 x 265 x 305 mm		
Master Pack Quantity	10 pcs		
Master Pack Weight	10.94 kg		
Country of Origin	China		
Warranty	5 Years		