

# Redundant Power Supply (04G184004921) Spec Sheet

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## General

This specification defines a 1+1 redundant hot-swap power supply that supports 1U rack mount entry server systems. It defines a 770W power supply with 2 outputs: +12VDC and +5Vsb. A separate PDB (power distribution board) is designed to plug directly to the output connector of the PS and provide additional power converters to produce other required voltages. An IEC connector is provided on the external face for AC input to the power supply. The power supply getting cooling air from the fans plugged into the PDB.

### Summary of requirements

Module mechanical form factor: 40.2mm x 54.5mm x 322mm (H x W x D)  
Card edge for DC outputs  
IEC 320 AC inlet

Cooling: 40mm x 40mm x 48mm fans in the module  
Module control of variable speed fans based on load share bus and PSU configuration (1+1 or 1+0)  
Fans running from 5VSB when in standby mode

**Module outputs: 770W: 12V/62.5A, 5VSB/4.0A**

Module efficiency: ~88% efficiency @ 20% load, 230VAC  
~92% efficiency @ 50% load, 230VAC  
~88% efficiency @ 100% load, 230VAC

Note: the power supply tested without the fan

AC Input: 90VAC to 264VAC  
Power Factor Corrected (EN61000-3-2)  
IEC 320 inlet connector on module

Holdup time: 12msec @ 100% load (770W)

Redundancy: Output or'ing devices for 12V, 5VSB  
12V active load sharing (10% accuracy) at full load

SMBus (PMBUS) module: AC input voltage (Vrms), AC input current (Arms)  
Output power (12V), Output current (12V)

Fan speed control and temperature sensors  
Critical and warning events  
FRU Data

Protection: over current, over temperature base on hot spot, over voltage

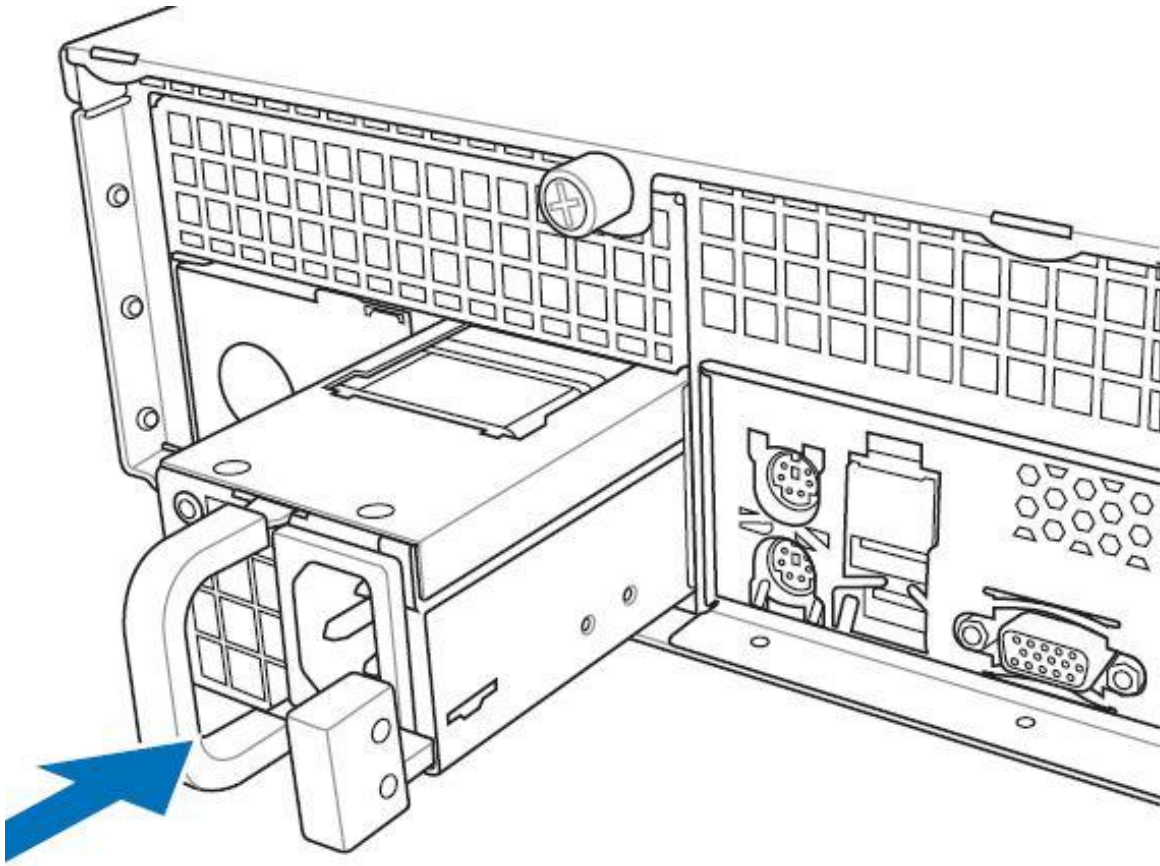
LED: Bi-Color LED Green/Amber

Environmental: 45°C max inlet temperature  
5,000 feet altitude

EMI: EN55022 / CISPR 22 – Class A (6dB margin) @ 80% load

Reliability: 100k hours MTBF & 3 year life @ 75% load, 35°C, 100VAC  
Standard Delta component de-ratings

Ecology: RoHS compliant per directive 2002/95/EC (lead free solder)



**Redundant 770W 80PLUS Gold Power Supply**