



RPS-100

Industrial Redundant Power Supply 100W Power Module

Features

- Max 100W output power
- Support Load Balance
- Supports hot swapping
- Easy installation



Introduction

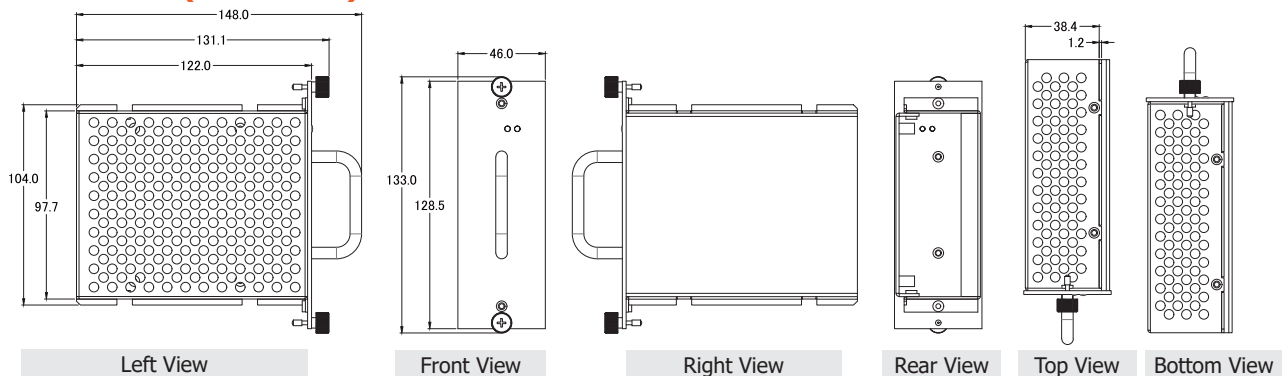
The RPS-100 can return various real-time information of itself, including load current, temperature, existence, malfunction etc. The information not only can be used to evaluate the health condition of the RPS-100 itself, but also can be record to estimate the power consumption of the whole system, and an instant warning can be sent when abnormal power consumption occurs. Through the information, user can easily implement predictive alarm and fault alarm function for the system. In addition, the RPS-100 can also record the using time of itself by the communication module, which can be used as a basis for maintenance and replacement and estimate MTBF (Mean Time Between Failures). When the RPS-100 has reached the recommended service life, user can replace it early to make the power system more reliable and stable. The RPS-100 has a built-in load balancing function, so there is no need to add extra load balancing modules. In addition, the RPS-100 adopts a slot-type design, and it supplies hot swapping function, so when user replaces the RPS-100, there is no need to turn off the power system. In comparison to the traditional power supply, the RPS-100 saves the trouble of wiring, and it is simpler and safer.

Electrical Specification

Output	
DC Voltage	24V
Rated Current	4.16A
Current Range	0~4.16A
Rated Power	100W
Ripple & Noise(max.)	50mVp-p
Voltage Tolerance	±1.0%
Line Regulation	±1.0%
Load Regulation	±5.0%
Setup, Rise Time	1300ms,120ms at full load
Hold Up Time(Typ.)	40ms at full load
Input	
Voltage Range	90~264VAC
Frequency Range	47 ~ 63Hz
Power Factor(Typ.)	PF=0.961/230VAC at full load, PF=0.985/115VAC at full load
Efficiency(Typ.)	86%
AC Current(Type)	1.01A/115VAC 0.51A/230VAC
Inrush Current	COLD START 30A/115VAC 60A/230VAC
Leakage Current	Earth<3.5mA ,Touch<0.25mA
Protection	
Overload	110%~200% (Automatic recovery)
Over Voltage	26.4~31.2 (Automatic recovery)

Environment	
Working Temperature	-20~50°C
Working Humidity	5~95%RH Non-condensing.
Storage Temperature, Humidity	-40~85°C
Vibration	0.26~6.09 G Frequency Type: Sweep Frequency Frequency Range: 10~55 Hz Displacement: 1.0mm Sweep Rate: 60 minute / cycle Number of cycle: 1 cycle / axis Direction: X ,Y and Z axis
MTBF	100K (hours@25°C)
Safety & EMC	
Safety Standards	Design to meet 62368
Withstand Voltage	I/P-O/P:3KVAC I/P-FG:1.8KVAC O/P-FG:0.5KVAC
Isolation Resistance	I/P-O/P, I/P-FG, O/P-FG:>100M Ohms / 500VDC
EMC Emission	EN 55032 CISPR 32 & FCC Part 15 B CLASS B : System with 4 module in parallel
EMC Immunity	EN 55022, CISPR 22 & FCC Part 15, EN 61000-3-2, EN 61000-3-3, EN 61204-3 IEC 61000-4-2, IEC 61000-4-3, IEC 61000-4-4, IEC 61000-4-5, IEC 61000-4-6, IEC 61000-4-8, IEC 61000-4-11

Dimensions (Units: mm)



Ordering Information

RPS-100	Industrial Redundant Power Supply 100W Power Module (RoHs)
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