

# 4U Type N+1 Redundant Power Supply

## EFRP- 4603

**1800W Output Power**  
**1800W+600W Redundant Power**

**N+1 Redundant Configuration**  
**Meet 4U Rackmount System**



Dimensions: 101.2(W) x 167.2(H) x 300(D) mm

**Features:**

- ⦿ Compact size Module Design
- ⦿ Quick Removable Application
- ⦿ Active Power Factor Correction
- ⦿ Universal Power Input
- ⦿ Current Sharing on +5V, +3.3V and +12V
- ⦿ Remote DC Sense on +5V, +3.3V
- ⦿ Front panel LED to Indicate Power Status
- ⦿ Power Fault Alarm Signals
- ⦿ Over Voltage Protection
- ⦿ Over Current Protection
- ⦿ Over Power Protection
- ⦿ Short Circuit Protection
- ⦿ MTBF >100,000 Hours

**General Specifications:**

- ⦿ Input Range: 100 to 240 VAC
- ⦿ Power Factor: 0.98 minimum
- ⦿ Efficiency: 65% minimum, at full load
- ⦿ Hold up Time: 20mS minimum, at full load
- ⦿ PSON (Remote ON/OFF): TTL compatible
- ⦿ Power Good: 200 to 500 ms, TTL compatible
- ⦿ Operating Temperature: 0 to 45 °C
- ⦿ Operating Humidity: 20 to 90 %

**Agency Requirements:**

- ⦿ Harmonic: Meet EN61000-3-2
- ⦿ EMI/RFI: CE, FCC class B
- ⦿ Safety: UL, cUL, TUV, CB

**Electrical Specifications:**

**Regulation, Ripple & Noise:**

Output	+3.3V	+5V	+12V	-5V	-12V	5Vsb
Load Regulation	+5/-4 %	+5/-3 %	+5/-4 %	--	± 5%	± 5%
Cross Regulation	+5/-4 %	+5/-3 %	+5/-4 %	--	± 5%	± 5%
Line Regulation	± 1%	± 1%	± 1%	--	± 1%	± 1%
Ripple & Noise	50mV	50mV	120mV	--	120mV	50mV

**Input and Output Ratings:**

Voltage	Input			Load	Output					
	Frequency	Current	Watt		+3.3V	+5V	+12V	-5V	-12V	5Vsb
100 - 240 VAC	47-63 Hz	26-13A	1800W	Max Load	70A	70A	100A	--	1A	2.5A
				Min Load	2A	6A	2A	--	0A	0A

Note: 1. The +5 & +3.3 Volt combine total output shall not exceed 600W

2. The +5, +3.3 and +12 Volt combine total output shall not exceed 1800W

3: Noise bandwidth is from DC to 20 MHz.

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Dimensions (Unit: mm): (TBD)

