

1U Type N+1 Redundant Power Supply

EFRP-250/300

ATX12V

250/300 watts Output Power
Power Factor Correction (PFC)
N+1 Redundant Configuration
Meet 1U Rack Mount System



Dimensions: 83(W) x 40(H) x 250(D) mm

Features:

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

General Specifications:

- ⦿ Input Range: 100 to 240 VAC, +/-10%
- ⦿ Power Factor: 0.95 minimum
- ⦿ Efficiency: 65% minimum, at full load
- ⦿ Hold up Time: 20mS minimum, at full load
- ⦿ PSON (Remote ON/OFF): TTL compatible signal
- ⦿ Power Good: 100 to 500 ms, TTL compatible signal
- ⦿ Cooling Fan: 40x40x28 mm (SANYO)
- ⦿ Operating Temperature: 0 to 50 °C (For EFRP-2250)
0 to 40 °C (For EFRP-2300)
- ⦿ Operating Humidity: 20 to 90 %

Agency Requirements:

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

Electrical Specifications:

Regulation, Ripple & Noise:

Output	+5V	+3.3V	+12V	-5V	-12V	5Vsb
Load Regulation	± 5%	± 5%	± 5%	± 5%	± 5%	± 5%
Cross Regulation	± 5%	± 5%	± 5%	± 5%	± 5%	± 5%
Line Regulation	± 1%	± 1%	± 1%	± 1%	± 1%	± 1%
Ripple & Noise	60mV	60mV	120mV	100mV	120mV	70mV

Input and Output Ratings:

Model No	Input			Watt	Output						
	Voltage	Frequency	Current		Load	+5V	+3.3V	+12V	-5V	-12V	5Vsb
EFRP-250	100 - 240 VAC	47-63 Hz	5-2.5A	250W	Max Load	25A	20A	16A	0.3A	0.8A	2A
					Min Load	3A	1A	1A	0A	0A	0A
EFRP-300	100 - 240 VAC	47-63 Hz	6-3A	300W	Max Load	30A	25A	18A	0.3A	0.8A	2A
					Min Load	3A	1A	1A	0A	0A	0A

Note: 1. The +5 & +3.3 Volt combine total output shall not exceed 140W for EFRP-250 and 170W for EFRP-300.

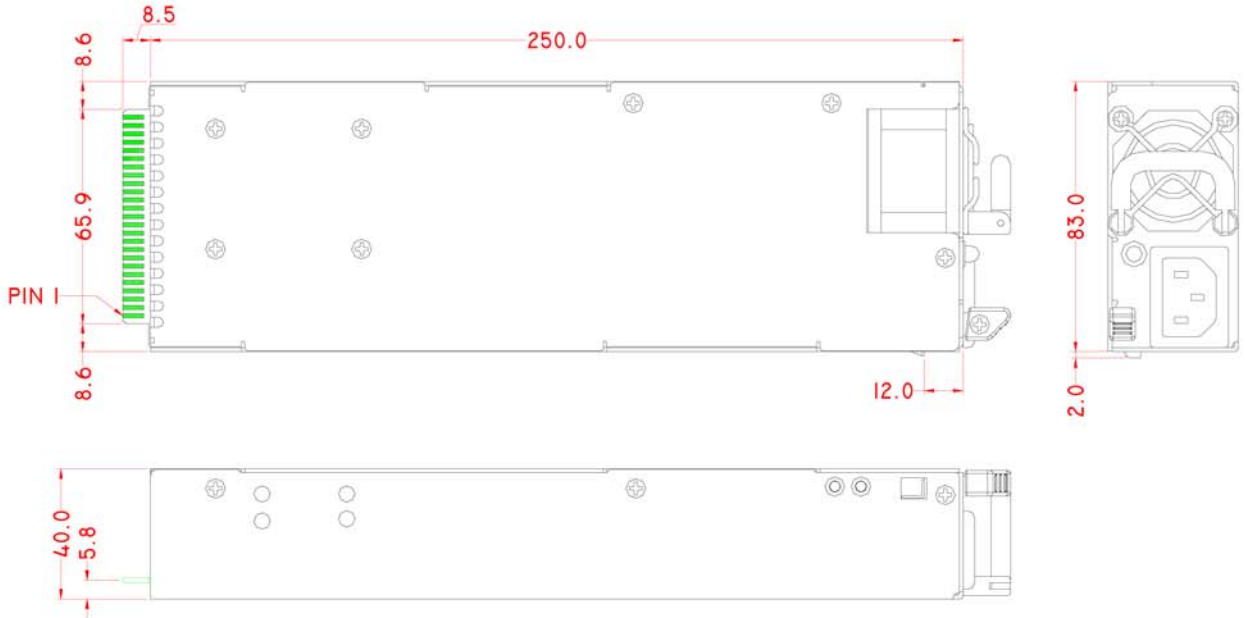
2. The +5, +3.3 and +12 Volt combine total output shall not exceed 230W for EFRP-250 and 280W for EFRP-300.

3: Noise bandwidth is from DC to 20 MHz.

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Dimensions (Unit: mm):



Output Connector:

Pin#	Signal		Pin#
	Top Side	Bottom Side	
1	PSON	5VSB	26
2	PHD	PG	27
3	12VS+	12VSHR	28
4	3VS+	3VSHR	29
5	+33V	+33V	30
6	+33V	+33V	31
7	+33V	+33V	32
8	+33V	+33V	33
9	+12V	+12V	34
10	+12V	+12V	35
11	+12V	+12V	36
12	GND	GND	37
13	GND	GND	38
14	GND	GND	39
15	GND	GND	40
16	GND	GND	41
17	GND	GND	42
18	GND	GND	43
19	GND	GND	44
20	+5V	+5V	45
21	+5V	+5V	46
22	+5V	+5V	47
23	+5V	+5V	48
24	-5V	-12V	49
25	5VS+	5VSHR	50