

Overview

FLEXPOWER RD SERIES is a 12/24VDC single or dual voltage, DC rackmount power system with multiple power distribution outputs specifically designed for use within the access, security, CCTV, and mass notification segments of the life safety industry. Multiple output options provide for simple power distribution for auxiliary equipment power. *Models ending in "E" are preset for a 230VAC input from the factory.*

Available with either two, eight, or sixteen, continuous or switched power outputs, each output is fused at 3A (H variant is 5A) and individually protected against electrical surges caused by lightning or transients on the external wiring (SurgeShield™). The unit is selectable for 12 or 24VDC (default factory setting is 12VDC), with the switched power output user selectable for either failsafe or failsecure (ON-OFF) operation when the fire alarm input is initiated (default factory setting is failsafe).

Models

Single Voltage: **RD250x** 12 or 24VDC selectable

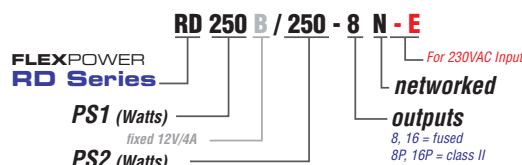
Dual Voltage: **RD250B** Fixed 4A/12V and 8A/24V

Dual Voltage: **RD250/250** 12 or 24VDC selectable PS1, PS2

Factory default setting on all FPO power supplies is 12VDC

Factory default Input voltage setting for models ending in "E" is 230VAC

All dual voltage models allow each output to be individually set for 12 or 24VDC



Rackmount Features

- 120VAC input or user select 230VAC supports data center electrical systems
- Each input and output has dedicated two terminal pair
- Direct power supply output terminals for flexibility
- High capacity battery charging | Independent charging circuit
- Automotive fuses for improved ease of service
- Removable faceplate for serviceability

Comprehensive fault detection and reporting

- Form C contact transfer for AC Loss or brownout
- Form C contact transfer for abnormal system operation

Fire Alarm Interface

- Latching or Non-latching | Remote reset capability
- Normally Open, Normally Closed,
- Voltage | Polarity Reversal Activation

Lifetime Warranty

*Model No.	Power	Current	OUTPUTS	
			Bulk	Auxiliary
RD250	250W	20A/12 or 10A/24	2	
RD250-8	250W	20A/12 or 10A/24	2	8
RD250-16	250W	20A/12 or 10A/24	2	16

Dual Voltage No.

RD250B-8	250W	4A/12 and 8A/24	2	8
RD250B-16	250W	4A/12 and 8A/24	2	16
RD250/250-16	500W	PS1 20A/12, 10A/24 PS2 20A/12, 10A/24	2	16

**For 230VAC operation add "E" suffix to the model number ie RD250/E, RD250B-8-E*

For Class II power limited outputs add P after output number, ie RD250B-8P

For remote monitoring and control see RD250N or RS250 series datasheets

Specifications

Input Power	Input 120/230 VAC 50/60 Hz (model number dependent) Thermal overload protection / Short circuit protection			Models with "E" suffix are factory preset to 230VAC
Output Power	RD250 RD250B RD250/250	250 Watts: 250 Watts: 500 Watts:	20 amps at 12 VDC or 10 amps at 24 VDC 4 amps at 12 VDC and 8 amps at 24 VDC PS1 20A/12VDC or 10A/24VDC PS2 20A/12VDC or 10A/24VDC	Factory default setting on all power supplies is 12VDC RD250B factory set to 24 & 12VDC
Output Distribution	Optional eight or sixteen auxiliary outputs fused at 3A each 8P, 16P outputs are Class II power limited at 2.5A each – Individually selectable outputs on dual voltage systems			
Supervision	AC input, DC1, and DC2 output Low battery and battery presence supervision (form C contacts) AC fail supervision (form C contacts) System Fault, AC Fault, Ground Fault, Reverse Battery			
External Indicators	AC on master on/off switch Front Panel Individual Output Status LEDs			
Battery Charging	Maximum charge current 2.0 amp Independent built-in charger for sealed lead acid or gel type batteries Microprocessor dual rate charging of 12 or 24 V battery sets Automatic switchover to standby battery when AC fails Zero voltage drop when switched over to battery backup			
Regulatory Compliance	UL294 / UL603 / ULC S318 / ULC S319 / CSA C22.2 #107.1 / CSA 22.2 #60950 / FCC / CE			
BTU Rating	RD250 109 BTU/Hr RD250B 109 BTU/Hr RD250/250 218B TU/Hr			
Physical Dimensions	2U rack mount (19.00"W x 3.5"H x 14"D) Weight 19 lbs.			

FAULT DETECTION AND REPORTING

DETECTED FAULT CONDITIONS

AC Power

- AC loss, AC low, Master AC power switch

DC Power and System

- Abnormal or loss of power supply operation
- Over current, over temperature condition
- DC output high, low
- Battery Presence, Earth Ground (user optional)
- Reversed battery condition, blown fuse or loss of output voltage on selected accessory boards (detected on the power supply)

POWER DISTRIBUTION

DISTRIBUTED OUTPUTS

8/16 - individually protected auxiliary outputs, fused at 3A per output

8P/16P - individually protected auxiliary outputs, class II power limited at 2.A per output

- Each output may be programmed for either voltage in dual voltage systems

Visual Indicators

- DC Presence: Green LED per output

Removable terminals: accepts #12 to #24 AWG

RD - rear panel

