LifeSafety Power®

FLEXPOWER **RD75N Series**
Managed Rackmount DC Power System
Networked Single / Dual Voltage
8 or 16 Outputs | UL/CUL/CE

Overview

FLEXPOWER RD SERIES is a networked 12/24VDC single or dual voltage, 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.

Network reporting capabilities include: operational fault status; power supply output; battery charging voltage; battery charging current; and fire alarm input status. In addition to automated and scheduled status reports, diagnostic servicing and battery load tests can be performed remotely, saving the cost in on-site servicing. *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 (SurgeShied™). 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: **RD75x** 12 or 24VDC selectable
Dual Voltage: **RD75B** Fixed 2A/12V and 2A/24V
Dual Voltage: **RD75/150** 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
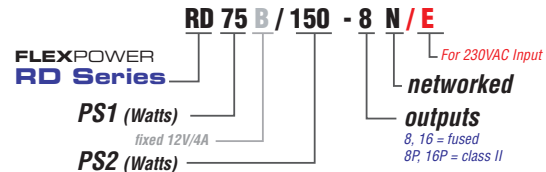- Normally Open, Normally Closed, Voltage, or Polarity Reversal Activation

Lifetime Warranty

Network System

FLEXPOWER
RD Series

RD 75 B / 150 - 8 N / E

For 230VAC Input

PS1 (Watts)
fixed 12V/4A
PS2 (Watts)

networked **outputs**
8, 16 = fused
8P, 16P = class II

Model No.	Power	Current	OUTPUTS Bulk	OUTPUTS Auxiliary
RD75N	75W	6A/12 or 3A/24	2	
RD75-8N	75W	6A/12 or 3A/24	2	8
RD75-16N	75W	6A/12 or 3A/24	2	16

Dual Voltage No.

Model No.	Power	Current	Bulk	Auxiliary
RD75B-8N	75W	2A/12 and 2A/24	2	8
RD75B-16N	75W	2A/12 and 2A/24	2	16
RD75/75-16N	150W	**PS1** 6A/12, 3A/24 **PS2** 6A/12, 3A/24	2	16
RD75/150-16N	225W	**PS1** 6A/12, 3A/24 **PS2** 12A/12, 6A/24	2	16

**For 230VAC operation add "/ E" suffix to the model number ie RD75N/E
For Class II power limited outputs add P after output number, ie RD75B-8PN
For remote monitoring and control see RS series datasheets

Network Features

- Monitor and report system integrity, battery health and output condition
- Remote diagnostic servicing of host power supply(s) and battery set
- Monitoring of DC output voltage/current, AC status, battery status, internal and external temperatures
- Conduct remote battery load tests or power cycle 8 bank output to reset devices
- Time / date stamp log reports on last 1000 events
- Email or SNMP Notification (get, set, trap)

Specifications

Input Power	Input 120/230 VAC 50/60 Hz Thermal overload protection / Short circuit protection

Output Power	RD75 75 Watts: 6 amps at 12 VDC or 3 amps at 24 VDC
	RD75B 75 Watts: 2 amps at 12 VDC and 2 amps at 24 VDC
	
	RD75/75 150 Watts: **PS1** 6A/12VDC or 3A/24VDC
	                              PS2 6A/12VDC or 3A/24VDC
	RD75/150 225 Watts: **PS1** 6A/12VDC or 3A/24VDC
	                              PS2 12A/12VDC or 6A/24VDC

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 1.0 amp (RD75, RD75B models) and 2.0 amp charge current (RD75/150) 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	RD75 33 BTU/Hr | RD75B 33 BTU/Hr | RD75/150 99 BTU/Hr
Physical Dimensions	2U rack mount (19.00"W x 3.5"H x 14"D) | Weight 19 lbs.

Models with "/ E" suffix are factory preset to 230VAC

Factory default setting on all power supplies is 12VDC

RD75B factory set to 24 & 12VDC

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

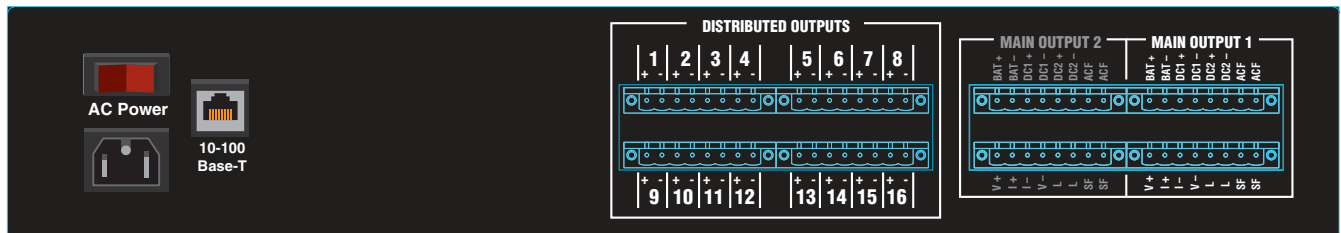**8P/16P - individually protected auxiliary outputs, class II power limited at 2.A per output**
- – *Each output may be programmed for either voltage in dual voltage systems*

Visual Indicators
- – *DC Presence: Green LED per output*

Removable terminals: accepts #12 to #24 AWGG

RD-N Series
rear panel

---

lifesafetypower.com

(888) 577-2898
info1@lifesafetypower.com

Specifications subject to change without notice.

P01-284A   07/22

LifeSafety Power
10027 S. 51st Street, Suite 102
Phoenix, AZ 85044 USA