LifeSafety Power®

FLEXPOWER **RC75N Series**
DC Rackmount with Controlled Outputs
Networked Single / Dual Voltage
8 or 16 Outputs | UL/CUL/CE

Overview

FLEXPOWER RC-N SERIES is a networked 12/24VDC single or dual voltage, rack mount power system with multiple control outputs designed specifically for the access control, security, CCTV and mass notification segments of the life safety industry. 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.*

Multiple output options provide simple power distribution for auxiliary equipment power and controlled power distribution for lock and signaling control. Output options include eight or 16 controlled, or eight controlled and eight distributed (RC150B-C8D8N only) outputs, each fused at 3A and individually protected against electrical surges on external wiring caused by lightning or electrical transients. Controlled outputs feature optoisolated inputs for independent control of each output by means of voltage application, open collector, or normally open/normally closed contact transfer.

Network System

FLEXPOWER
RC Series

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

RC **75** B / 150 - C8 D8 N / E

For 230VAC Input
networked
outputs
CX = 8, 16 control
DX = 8 auxiliary
XX"P" = class II

Models

*Single Voltage: **RC75** 12 or 24VDC selectable
*Dual Voltage: **RC75/150** 12 or 24VDC selectable
 Dual Voltage: **RC75B** factory preset to 24 and 12VDC
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
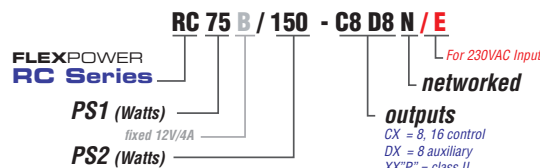- Normally Open, Normally Closed, Voltage, or Polarity Reversal Activation

Lifetime Warranty

Model No.	Power	OUTPUTS Bulk	Control	Auxiliary
RC75-C8N	6A/12 or 3A/24	2	8	
RC75-C8D8N	6A/12 or 3A/24	2	8	8
RC75-C16N	6A/12 or 3A/24	2	16	

Dual Voltage Model No.

	Power	Bulk	Control	Auxiliary
RC75B-C8N	2A/12 and 2A/24	2	8	
RC75B-C16N	2A/12 and 2A/24	2	16	
RC75/75-C16N	**PS1** 6A/12, 3A/24 **PS2** 6A/12, 3A/24	4	16	
RC75/150-C16N	**PS1** 6A/12, 3A/24 **PS2** 12A/12, 6A/24	4	16	

For 230VAC operation add "/ E" suffix to the model number ie RC75-C8N/E
For Class II power limited outputs add P after output number, ie RC75B-C8PN
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	Models with "/ E" suffix are factory preset to 230VAC
Output Power	RC75 75 Watts: 6 amps at 12 VDC or 3 amps at 24 VDC RC75B 75 Watts: 2 amps at 12 VDC and 2 amps at 24 VDC RC75/75 150 Watts: **PS1** 6A/12VDC or 3A/24VDC **PS2** 6A/12VDC or 3A/24VDC RC75/150 225 Watts: **PS1** 6A/12VDC or 3A/24VDC **PS2** 12A/12VDC or 6A/24VDC	*Factory default setting on all power supplies is 12VDC* *RC75B factory set to 24 & 12VDC*
Output Distribution	Eight or sixteen lock outputs, fused at 3A each (C8, C16) / Eight or sixteen lock outputs, class II at 2.5A each (C8P, C16P) – *Individually selectable Mag Lock/Strike (Fail-Safe, Fail-Secure) solid state fuse protected outputs* Eight auxiliary outputs fused at 3A each - available on RC75-C8D8 and RC75B-C8D8 only – *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 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	RC75 33 BTU/Hr	RC75B, 33 BTU/Hr	RC75/75, 66 BTU/Hr	RC75/150, 99 BTU/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

CONTROL OUTPUTS

8 or 16 access control trip inputs
8 or 16 individually protected lock control outputs, fused at 3A per output

Each input may be programmed to respond to:
– *Application of voltage between 9 and 33VDC*
– *Removal of voltage between 9 and 33VDC*
– *Normally open dry contact transition*
– *Normally closed dry contact transition*

POWER DISTRIBUTION - continued

Each output may be programmed for the following modes:
– *Voltage output from power supply one*
– *Voltage output from power supply two*
– *Fail-safe, Fail-secure*
– *Fire alarm over ride for egress lock control*

Visual Indicators
– *DC Presence: Green LED per output*
– *Fault Condition: Yellow LED per 8 output bank*

Removable terminals: accepts #12 to #24 AWG

DISTRIBUTED OUTPUTS (RC75/75B-C8D8 ONLY)

Eight individually protected auxiliary outputs, fused at 3A per output
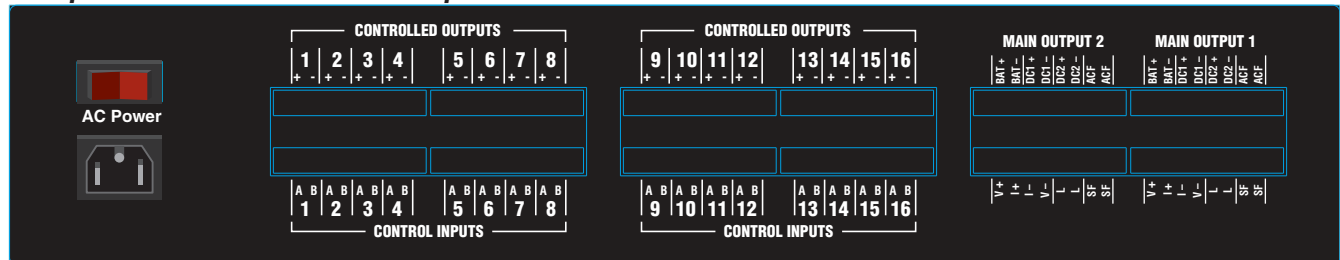– *Each output may be programmed for either voltage in dual voltage systems*

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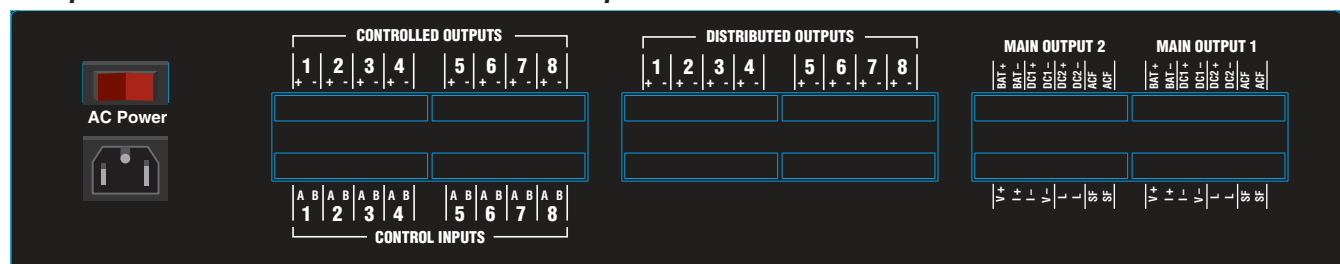– *DC Presence: Green LED per output*

Removable terminals: accepts #12 to #24 AWG

RC
rear panel for 8 or 16 control outputs

rear panel for 8 control and 8 distributed outputs

lifesafetypower.com

(888) 577-2898
info1@lifesafetypower.com

Specifications subject to change without notice.

P01-862A   07/22

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