



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.

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 opto-isolated inputs for independent control of each output by means of voltage application, open collector, or normally open/normally closed contact transfer.

Models

*Single Voltage: **RC75, RC150** 12 or 24VDC selectable

*Dual Voltage: **RC75/150, RC150/150** 12 or 24VDC selectable both PS1, PS2

Dual Voltage: **RC150B, RC250B** factory preset to 24 and 12VDC

*Factory default setting on all power supplies is 12VDC

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

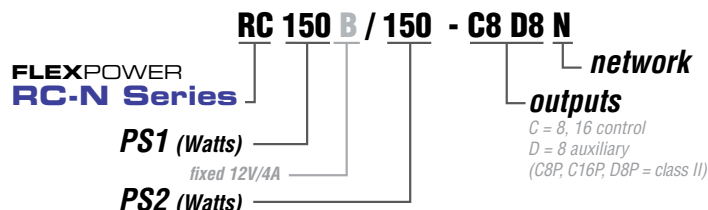
Fire Alarm Interface

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

Lifetime Warranty

Specifications

Input Power	Input 120/230 VAC 50/60 Hz Thermal overload protection / Short circuit protection			
Output Power	RC75	75 Watts:	maximum of 6 amps at 12 VDC or 3 amps at 24 VDC	Factory default setting on all power supplies is 12VDC
	RC150	150 Watts:	maximum of 12 amps at 12 VDC or 6 amps at 24 VDC	
	RC150B	150 Watts:	maximum of 4 amps at 12 VDC and 4 amps at 24 VDC	RC150B / RC250B factory set to 24 & 12VDC
	RC250B	250 Watts:	maximum of 4 amps at 12 VDC and 8 amps at 24 VDC	
	RC75/150	225 Watts:	PS1 12VDC/6A or 24VDC/3A PS2 12VDC/12A or 24VDC/6A	
	RC150/150	300 Watts:	PS1 12VDC/12A or 24VDC/6A PS2 12VDC/12A or 24VDC/6A	
Output Distribution	Eight or sixteen lock outputs, fused at 3A each (C8, C16) – Individually selectable Mag Lock/Strike (Fail-Safe, Fail-Secure) solid state fuse protected outputs Eight auxiliary outputs fused at 3A each - available on RC150B-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 2.0 amp (RC150 and RC250 models) or 1.0 amp (RC75 models) 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 33BTU/Hr RC150, RC150B 66BTU/Hr RC250B 109BTU/Hr RC75/150 99BTU/Hr RC150/150 132BTU/Hr			
Physical Dimensions	2U rack mount (19.00"W x 3.5"H x 14"D) Weight 19 lbs.			



Model No.	Power	OUTPUTS		
		Bulk	Control	Auxiliary
RC75-C8D8N	6A/12 or 3A/24	2	8	8
RC75-C8N	6A/12 or 3A/24	2	8	
RC150-C8N	12A/12 or 6A/24	2	8	
RC150-C16N	12A/12 or 6A/24	2	16	
RC150B-C8D8N	4A/12 & 4A/24	2	8	8
RC150B-C16N	4A/12 & 4A/24	2	16	
RC250B-C16N	4A/12 & 8A/24	2	16	
RC75/150-C16N	6A/12 or 3A/24 & 12A/12 or 6A/24	2	16	
RC150/150-C16N	12A/12 or 6A/24 (X2)	4	16	

For enhance monitoring of each individual output see RS series datasheet for more information

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 100 events
- Email or SNMP Notification (get, set, trap)

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
- AC loss 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 (RC150B-C8D8N ONLY)

Eight individually protected auxiliary outputs, fused at 3A per output

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

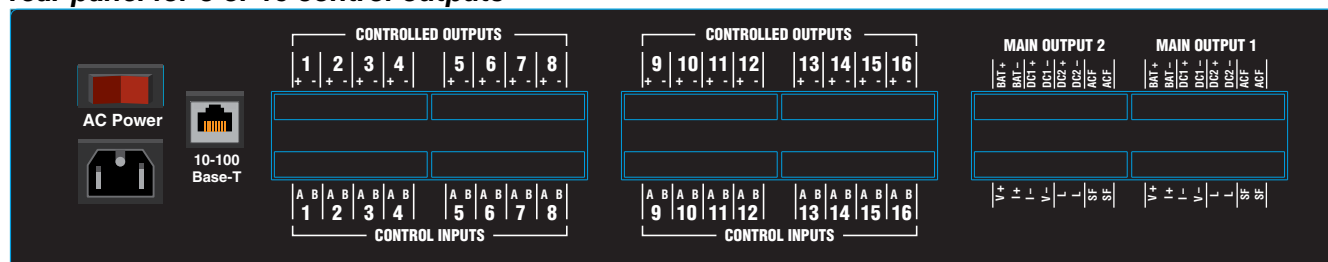
Visual Indicators

- DC Presence: Green LED per output

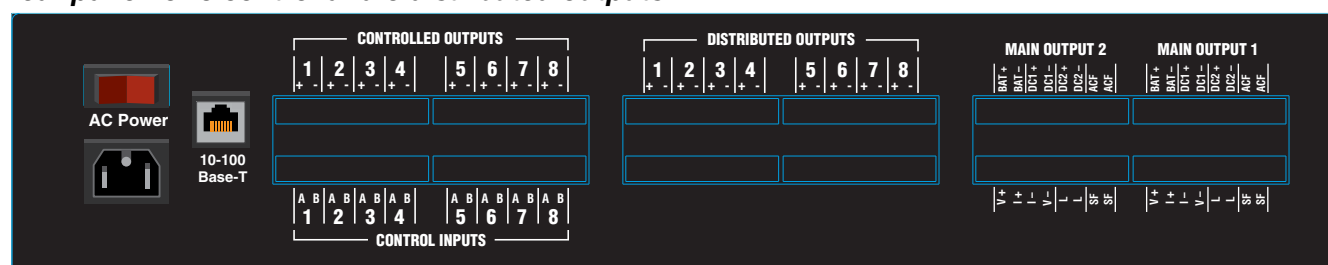
Removable terminals: accepts #12 to #24 AWG

RC-N

rear panel for 8 or 16 control outputs



rear panel for 8 control and 8 distributed outputs



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Specifications subject to change without notice.

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