

## FEATURES

- ▶ Compatible with PACOM 8002 & 8003 Controllers
- ▶ Provides low voltage, battery failure, battery charger failure & AC fail alarms
- ▶ Configured, controlled and monitored remotely
- ▶ Universal AC input
- ▶ Battery monitoring and charging
- ▶ PSU temperature monitoring
- ▶ Auto-switching to backup battery DC or UPS on AC fail
- ▶ Overload and short-circuit protection
- ▶ Deep discharge protection for backup batteries
- ▶ Battery charging at a maximum rate of 1.75A
- ▶ 1 independent output with 2 connection points
- ▶ 100W of power
- ▶ Temperature compensated battery charging
- ▶ IEC320 C13 receptacle



The PACOM 8309 Power Supply Unit (PSU) provides a regulated 10.5 to 17.5 VDC supply for powering controllers, peripheral devices and charging backup batteries. It can be remotely monitored by PACOM Security Management Software. A PACOM Controller acts as an interface to the 8309 PSU via the status wire. The 8309 PSU features a universal AC input for use anywhere in the world without modification or configuration and has protection against overload and short-circuits, and battery deep discharge. In conjunction with the PACOM 8002 and 8003 Controllers, the 8309 PSU can:

- publish real-time status of backup batteries to the system
- monitor battery voltages, power supply voltages
- notify the security system if any monitored parameters fall outside specified limits.

***The PACOM 8309 Power Supply Unit (PSU) powers the 8002 and 8003 Controllers, charges the backup batteries for the controller and can be remotely controlled by the PACOM Security Management Software.***

## TECHNICAL SPECIFICATIONS

### ELECTRICAL

Mains Supply	100 to 240VAC @ 50/60Hz
Output Voltage	10.5 to 17.5VDC (15VDC nominal) @ 6.0A
Voltage Adjusted Range	±5% of rated output voltage
Output Ripple	<120mV
Output Current	6.7A maximum
Over Current Protection	110 to 150% of rated output current
Over Voltage Protection	18.75 to 21.75V
Current Consumption	40mA typical, PCB only
Output Power	100W
Low Voltage Fault	14.0V @ supply output
Fuse	<b>F1:</b> AC input circuit, 3.15A slow blow glass type 5 x 20mm (0.197 x 0.787")

### BATTERY

Battery Capacity	1 x 7 to 17Ah <b>Note:</b> For EN 50131-6 compliance, this value depends on the security grade, which specifies backup battery duration and recharge time requirements.
Type (recommended)	Maintenance-free sealed lead-acid, 10+ year high performance
Charging Current	1.75A
Low Voltage Fault	11.0V @ supply output
Deep Discharge Cutoff	10.5V @ supply output
Minimum Acceptable Energy Level	90%

### ENVIRONMENTAL

Class	II
Operating Temperature	-10 to +55°C (14 to 131°F)
Maximum Humidity	95% (non-condensing) @ 40°C (104°F)

### PHYSICAL

Enclosure Construction	Steel (ventilated)
Dimensions	174 x 112 x 86mm (6.9 x 4.4 x 3.4")
Packed Weight	1195g (42.2oz)

### STANDARDS

Security	Type A power supply unit, 6kVAC transient protection for UL
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## COMPLIANCE & ACCREDITATION

EN-50131-6: 2017 Security Grade 3 as certified by BRE Global (UL: UL603, UL 294 (Line Security: III, Attack:III, Endurance:IV. Standby Power: III), S318 installed in accordance with NFPA 70-NEC and Canadian Electrical Code, Part 1).

All power supplies are required to have recharge periods to provide standby power for the following end-use applications: (NPP, model NP12-8AH 128AH)

- UL1076: 4 hours at 2.75A using 2 x 8AH batteries (48 hours recharge)
- UL1610, S304: 24 hours at 1.25A using 3 x 8AH batteries (24 hours recharge)
- UL294: 2 hours at 4.1A using 2 x 8AH batteries (48 hours recharge)

## ORDERING INFORMATION

PART NUMBER	TYPE CODE	DESCRIPTION
300 042 009*	8309R-01	8309 Power Supply without monitoring capabilities
300 042 019*	8309R-01-UL	8309-UL Power Supply without monitoring capabilities

\* Power cables with a standard power plug must be sourced locally.