

FEATURES

- ▶ Compatible with PACOM 8002 & 8003 Controllers
- ▶ Provides low voltage, battery failure, battery charger failure and AC fail alarms
- ▶ Configured, controlled and monitored remotely
- ▶ Universal AC input
- ▶ Battery testing 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



The PACOM 8303 Monitoring Power Supply provides a regulated 12 to 15V DC supply for powering controllers, peripheral devices and charging backup batteries. The power supply unit can be remotely configured, controlled and monitored by PACOM security management software. A PACOM Controller acts as an interface to the 8303 via RS485.

The 8303 features a universal AC input for use anywhere in the world without modification or configuration and has protection against overload and short-circuits, battery deep discharge and incorrect polarity. The 8303 has a built-in battery charger, two power outputs and can also power an RS485 device line.

In conjunction with the PACOM 8002 and 8003 controllers, the 8303 can:

- publish real-time status of backup batteries to the system,
- monitor battery voltages, power supply voltages and temperature,
- notify the security system if any monitored parameters fall outside specified limits,
- periodically load test the batteries during normal operation.

The PACOM 8303 Monitoring Power Supply Unit powers the 8002 and 8003 Intelligent Controllers, charges the backup batteries for the controller and can be remotely controlled by the PACOM Security Management Software.

TECHNICAL SPECIFICATIONS

ELECTRICAL

Mains Supply	90 to 264VAC (100 to 240VAC nominal, auto-switching) @ 50/60Hz
Main Output Voltage	10.75 to 16.5VDC (15VDC nominal) @ 3.0A
Auxiliary Output Voltage	10.75 to 16.5VDC (15VDC nominal) @ 1.1A
Output Ripple	<100mV
Output Current	4.1A maximum
Over Current Protection	110 to 130% of rated output current
Over Voltage Protection	115 to 150% of rated output voltage
Current Consumption	60mA typical, PCB only
Output Power	65W
Low Voltage Fault	Configurable from 0 to 24.5VDC using PACOM Management Software. Note: For EN 50131-6 compliance, this value must be kept at or above 11.5.
Fuse	F1: Main supply, 5A slow blow glass type 5 x 20mm (0.2 x 0.8") F2: Auxiliary supply, 2A slow blow glass type 5 x 20mm (0.2 x 0.8") F3: Battery supply, 4A slow blow glass type 5 x 20mm (0.2 x 0.8")

BATTERY

Battery Capacity	1 x 15Ah (security grades 1 and 2), 1 x 17Ah (grade 3) general recommendation Note: For EN 50131-6 compliance, this value depends on the security grade, which specifies backup battery duration and recharge time requirements.
Type	Maintenance-free sealed lead-acid, 10+ year high performance recommended.
Charging Current	800mA
Low Voltage Fault	11.5V @ supply output
Deep Discharge Cutoff	10.5V @ supply output

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 96mm (6.9 x 4.4 x 3.8")
Packed Weight	1054g (37.2oz)

STANDARDS

Security	Type A power supply unit 6kVAC transient protection for UL
----------	---

COMPLIANCE & ACCREDITATION

AS/NZS CISPR22:2006 Class B | AS/NZS 60950.1:2003 INC. AMDTS 1,2&3 | EN55032 | EN50131-6 | EN61000-3-2:2006 , EN60950-1:2006 +A1:2010 +A11:2009 | EN 50131-3:2009 in conjunction with EN 50131-1:2006+A1:2009 | EN 50131-6:2008+A1:2014 | EN 50130-4:2011+A1:2014 | EN 50130-5:2011 | EN 50131-10:2014 | EN61000-3-2:2006 | EN 50136-2:2013 in conjunction with EN 50136-1:2012 | EN61000-3-3:1995 including amendments 1 & 2 | EN61000-3-2:2006 | FCC Title 47 Part 15 Subpart B Class B | ULC-S318-96 (US/Canada model) UL603 (US/Canada model) RoHS | China RoHS | C-Tick | CE Safety

(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 NO.	TYPE CODE	DESCRIPTION
300 042 003	PD8303R-01	8303 Monitoring Power Supply Unit
300 042 004	PD8303R-01-UL	8303 Monitoring Power Supply Unit (US/Canada only)