

PAVA9003

Power Management Unit



Description

The PAVA9003 Power Management Unit is designed for use with EN54-16 systems. It provides backup power supply for the PAVA9500 amplifier host, PAVA9500E expansion amplifier, and PAVA9425E expansion amplifier, ensuring seamless power switching in emergency situations.

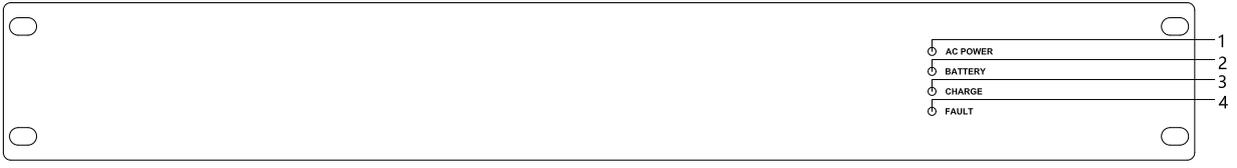
Features

- Aluminum alloy front panel design, 1.5U rack-mounted structure.
- Provides dry contact outputs for fault status feedback to the PAVA9500 amplifier host.
- Provides dry contact outputs for AC power fault detection, battery fault detection, charging fault detection, and output fault detection.
- Provides backup DC24V power supply for PAVA9500 amplifier host, PAVA9500E expansion amplifier, PAVA9425E expansion amplifier, and other devices requiring DC24V backup power.
- Supports automatic switching between main power and backup power.
- Supports fault status monitoring via PC client.
- Three groups of 24V main outputs (max. 40A per group). Three groups of 24V auxiliary outputs (max. 5A per group).

Specifications

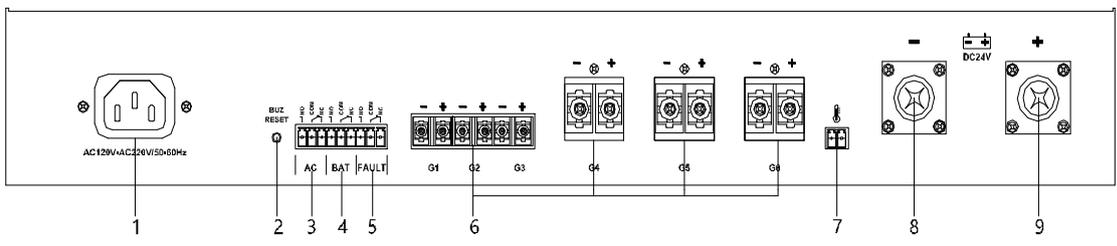
	Model	PAVA9003
Power Consumption	Idle Mode	≤10W
	Standby Mode	≤20W
	Operating Mode	≤300W
	Package Dimensions (L*W*H)	560*535*130mm
	Machine Dimensions (L*W*H)	483*355*66mm
	Gross Weight	6kg
	Net Weight	5.3kg

Front Panel



1. AC POWER (Mains Power Indicator): Green indicates normal operation. Yellow indicates a fault condition.
2. BATTERY (Battery Indicator): Green indicates normal operation. Yellow indicates a fault condition.
3. CHARGE (Charging Indicator): Green indicates charging. Off indicates not charging or fully charged. Yellow indicates a charging fault.
4. FAULT (Fault Indicator): Off indicates normal operation. Yellow indicates a fault condition.

Rear Panel



1. AC Power Input
2. Buzzer
3. AC Dry Contact Output
When mains power fails or auxiliary power is faulty, the AC POWER indicator turns yellow. This output is used for connection monitoring with PAVA9500 amplifier host. When the AC dry contact switch is set to ON, a 4.7KΩ end-of-line resistor is connected.
4. BAT Dry Contact Output
When the battery is disconnected or low, the BATTERY indicator turns yellow, and G1–G6 outputs have no voltage. This port is used for dry contact line monitoring with PAVA9500 amplifier host. When the dry contact switch is set to ON, a 4.7KΩ end-of-line resistor is connected.
5. FAULT Dry Contact Output
When a charging fault occurs, both the CHARGE indicator and FAULT indicator turn yellow. When fully charged or not charging, the CHARGE indicator is off. This port is used for dry contact monitoring with PAVA9500 amplifier host. When the dry contact switch is set to ON, a 4.7KΩ end-of-line resistor is connected.
6. Output Fault
If any output from G1 to G6 fails, the FAULT indicator turns yellow and the FAULT dry contact is actuated. G1–G3: Maximum 5A per channel (7.5A fuse); G4–G6: Maximum 40A per channel (50A fuse).
7. Temperature Sensor
8. DC24V Negative Output
9. DC24V Positive Output