



BEACON Power Management

INTEGRATING FIRE AND ACCESS

BN6S4-004-MB16-UL

24 VDC, 6 Amp/12VDC, 4 Amp
Multiple Output Access Control
Power Management System
8 or 16 Class 2 Power Limited Outputs



This unique multiple output power management system provides two separate outputs from a single 120 VAC input: **24 VDC, 6 Amp/ 12VDC, 4 Amp, with 8 or 16 Class 2, Power Limited outputs in a single cabinet** and will supply regulated and filtered main, standby or auxiliary power to access system panels, readers, ingress/egress security components, and locking devices.

In addition to essential life safety features, the system provides many exceptional benefits, including:

- Allows connection of a single 24 Volt battery set for automatic back-up of the 24 VDC and 12 VDC system output voltages
- Class 2, power limited power distribution outputs, individually selectable for 12 or 24 VDC devices and Fire Alarm Interface for emergency egress conditions ideal for new and retrofit installations.
- Space available within the enclosure for system batteries (not included).
- Internal plug-in connectors to reduce installation time

The BN6S4-004-MB16-UL is designed for access control and alarm monitoring power applications and can be used with most major access control systems.

CODE COMPLIANCE

- NFPA 72
- NFPA 731
- CSFM
- NY MEA
- FCC Part 15, subpart B, class A

GENERAL SYSTEM FEATURES

- Two Independent Power Supply Voltages
- Multiple power supply outputs individually fused and supervised
- 8 or 16 Individually selectable, Class 2, power limited outputs
- Short circuit protection
- Surge protection
- Thermal protection
- Dual rate controlled current battery charging
- Solid state battery transfer
- Visual fault & status indication
- Relay fault output
- Reverse polarity protection
- Minimal current draw in standby mode
- Surge current available for initial activation of:
 - Magnetic locks
 - Smoke dampers
 - Door holders
- Continuous monitoring of:
 - Internal System Operation
 - Battery Charging System
- Zero voltage drop on battery transfer
- Instant switch over to battery standby
- Interface to FACP addressable modules through either:
 - Voltage output
 - Relay output
 - Open collector output
- Battery presence supervision or Optional battery presence disconnect
- Limited lifetime warranty

POWER DISTRIBUTION FEATURES

- 8 or 16 Individually selectable, Class 2, power limited outputs
- Easily programmed with removable jumpers
- Visual Status Indicators

INSTALLATION / SERVICE FEATURES

- Removable terminal strips
- Plug-in Connectors for primary AC input and auxiliary modules allows for safe and easy connect/disconnect
- Tamper Switch Included

BN6S4-004-MB16-UL 24 VDC, 6 Amp/12VDC, 4 Amp Multiple Output Access Control Power Management System with 16 Class 2 Power Limited Outputs

POWER SUPPLY SPECIFICATIONS

NOTE: Multiple system provides two separate output voltages from a single AC input:

System Input specifications:

- Main Input voltage: 120 VAC or 230 VAC
- Input current: 2.1 A maximum
- Input voltage frequency: 60 Hz

Output specifications:

- Main Output voltage: 24 VDC
- Main Output current rating: 6 A, continuous
- Auxiliary Output voltage: 12 VDC
- Auxiliary Output current rating: 4 A, continuous
- Ripple: < 1 % RMS
- Current draw in standby mode: < 60 mA
- Electronically regulated and filtered outputs

Output Configurations:

- Main Power Supply:
 - 1 constant DC output
 - 1 FACP controlled output; energized on FAI
 - 1 FACP controlled output; de-energized on FAI
- Auxiliary Power Supply:
 - 2 Power Limited outputs

Fire Alarm Interface (FAI) Requirements:

- Trip voltage range: 9 to 33 VDC
- Current draw from FACP: 4 to 15 mA

Temperature Ratings:

- Operating temperature: 0 C° to 49 C°
- Humidity: 93% @ 32 C°, indoor, dry
- BTU/hr: 128 at full load

Battery Back-up Specifications:

- Battery charge chemistry: sealed lead acid rechargeable
- Maximum battery charge capacity: 36 Ah

Fault Detection:

- Main Power Supply; Relay Contact Output:
 - Low/No AC
 - High/Low DC
 - Blown fuse
 - Battery presence
- Auxiliary Power Supply; via Main Fault Relay:
 - HI/LO Output

Visual Indicators:

- Main Power Supply
 - System trouble: Yellow LED
 - AC power: Green LED
 - AC trouble: Yellow LED
 - Constant DC output OK: Green LED
 - FAI activated: Red LED
 - Reversed battery: Yellow LED
 - FACP controlled output OK: Green LED
- Auxiliary Power Supply:
 - Input Voltage: Green LED
 - Output Voltage: Green LED
 - Fault Detection: Yellow LED

POWER DISTRIBUTION SPECIFICATIONS

- 8 or 16 Class 2, power limited outputs, Individually selectable for:
 - 12 or 24 VDC
 - Enabled or disabled on FAI
 - Continuous output
- Multi-Buss Design:
 - Buss 1: Input Voltage: 24 VDC, supplied from Main Power Supply
Input Current: 14 A, maximum
 - Buss 2: Input Voltage: 12 VDC, supplied from Auxiliary Power Supply
Input Current: 14 A, maximum
- Lock Output current: 1.6 A per output, PTC protected

Visual Status Indicators:

- Buss 1 Voltage Present: Green LED
- Buss 2 Voltage Present: Green LED
- FAI activated: Red LED

MECHANICAL SPECIFICATIONS

- Vented cabinet: 15"L x 18"W x 4"D, 25 lbs
- Battery space: three 7 Ah, three 12 Ah or two 18 Ah batteries

APPLICATIONS

- Access control system power for all access control systems
- Fire alarm interface for emergency exit
- Door strikes
- Mag locks
- Card readers
- Proximity readers
- Smart Card readers
- Multi-technology readers
- Smoke detectors (re-settable)
- Door holders
- Auxiliary equipment
- Elevator recall
- Smoke dampers
- Mass Notification Systems

ORDER INFO

ORDER NUMBER	MODEL NUMBER	DESCRIPTION
10087	BN6S4-004-MB8-UL	24 VDC, 6 A / 12 VDC, 4A, 8 power limited outputs Large key lockable cabinet
10064	BN6S4-004-MB16-UL	24 VDC, 6 A / 12 VDC, 4A 16 power limited outputs Large key lockable cabinet
10025	BN8-000-UL	12/24 VDC 8 A power supply replacement board
10066	SPS4	Secondary power source
10067	MB8	8 Class 2, power limited outputs Multi-Buss power distribution board

