

DC UPS/Battery Detection System (BDS)

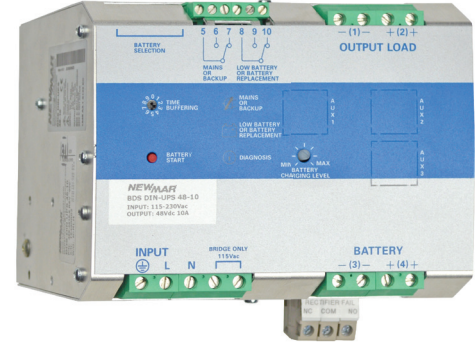
**Powers Loads, Charges and Monitors Back-Up Battery,
Meets NFPA 1221 Alarm Requirements**



**BDS-DIN-UPS 12-10
(Case A)**



**BDS-DIN-UPS 24-10
(Case Size B)**



**BDS-DIN-UPS 48-10
(Case C)**

- Combines power supply, battery charger, UPS circuitry and status monitoring in ONE compact DIN rail mount unit
- Alarm outputs comply with NFPA public safety in-building wireless communications back-up power requirements:
 - AC Fail, Low Battery, & Charger Fail
- Separate outputs for load and battery
- “Load Priority” circuit prevents discharged battery from impacting operation of critical loads when AC power is restored
- 3 step charging for rapid battery recovery, programmable for battery type, with optional temperature compensation sensor
- Low voltage disconnect protects battery from total discharge
- High operating temperature range to 70° C
- Communication MODBUS via RS-485 Interface/RJ-45 (Model 48-10 only)
- CE Approved/Designed to UL 1950

Specifications

Front Panel LED Indicators:

- Power Source: AC Fail
- Battery and System Diagnostics (via blink code)

Settings/Selectors:

- Battery Type: Lead Acid, Gel-Cell, Ni Cad (model 48-10 Only)
- Charge Current Limit: 20 - 100% of charge rating
- Power Restore Button: re-connects battery without AC present
- Battery Temp. Comp. probe (optional)

Protection:

- Low Voltage disconnect at 1.5 volts per cell
- Internal fuse
- Current limiting
- Short circuit and reverse polarity protection
- Thermal overload shut down and recovery

Temperature: -25 to +70° C. Continuous to 50°, de-rate 2.5% per ° C >50° C (50% output @ +70° C)

Cooling: Free air, convection

Mounting: DIN Rail Bracket (35mm)

Battery Detection Signal Outputs (form C):

1. AC Fail
2. Low battery voltage indicating battery discharge by 70% (i.e. only 30% capacity remains)
3. Internal charger/power circuit fail

Battery Detection System Models

Input: 115/230 VAC

BDS-DIN-UPS Model	Output Voltage	Output Power	MODBUS	Case
12-10	12 VDC	10 Amps	No	A
24-10	24 VDC	10 Amps	No	B
48-10	48 VDC	10 Amps	Yes	C

Case	Dimensions (H x W x D)	Weight
A	4.5" x 2.6" x 5.3"	2 Lbs.
B	4.5" x 3.9" x 5.3"	2 Lbs.
C	4.5" x 5.9" x 5.3"	4 Lbs.



Newport Beach, CA USA

Powering the Network 021516

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