

# DIN-Rail DC UPS

## Powers Loads and Charges Back-Up Battery, Ideal for Automation and Wireless System Transmitter Applications

- Combines all system power functions: power supply, battery charger, UPS circuitry and status monitoring in ONE compact DIN rail mount unit
- Separate outputs for load and battery
- "Load priority" circuit ensures power is dedicated first to the load, with remainder then allocated to battery charging, thus preventing a discharged battery from impacting operation of critical loads.
- 3 step charging for rapid battery recovery, programmable for battery type, with optional temperature compensation sensor
- Battery automatically supports load anytime AC fails
- Low voltage disconnect protects battery from total discharge
- Automatic periodic battery health diagnosis
- High operating temperature range to 70° C
- Alarm contacts: AC fail, battery at risk
- Communication MODBUS via RS-45 Interface (DIN-UPS-48-10/24-20/12-35)
- CE Approved/Designed to UL 1950

### Specifications

#### Front Panel LED Indicators:

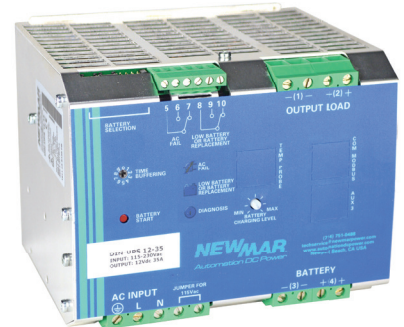
- Power Source: AC or on back up
- Battery and System Diagnostics (via blink code)

#### Settings/Selectors:

- Battery Type: Lead Acid, Gel-Cell
- Charge Current Limit: 20 - 100% of charge rating
- Back-Up Run Time on Batteries:
  - Programmed time limit: 1 - 60 min. (48-10, 24-20, and 12-35 models only)
  - Or
  - Until LVD disconnect (all models)
- Power Restore Button: re-connects battery without AC present

#### DIN UPS: 115/230 VAC Input

DIN-UPS Model	Output		MODBUS	Case
	Voltage	Power		
12-10	12 VDC	10 Amps	NA	A
12-35	12 VDC	35 Amps	Yes	C
24-10	24 VDC	10 Amps	NA	B
24-20	24 VDC	20 Amps	Yes	C
48-5	48 VDC	5 Amps	NA	B
48-10	48 VDC	10 Amps	Yes	C



DIN-UPS 12-35/24-20/48-10  
(Case Size C)



DIN-UPS 24-10/48-5  
(Case Size B)



DIN-UPS 12-10  
(Case Size A)

#### Signal Outputs (form C):

- AC Fail - operating on back-up power
- Battery abnormal condition (summary contact): Discharged, damaged, disconnected
- MODBUS Communication (DIN-UPS 48-10/24-20/12-35) only)

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

**Cooling:** Free air, convection

#### 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

**Terminal Blocks:** Screw type

**Mounting:** DIN Rail Bracket (35mm)

#### Optional:

- Battery temp. comp. probe (468-4510-1)
- BDA/DAS version w/ NFPA compliant alarm signals

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.

