

USER GUIDE

24VDC 4.5Ah DIN Mount Battery Pack

Ideal for Temporary Backup for DIN-Mounted Electronics

The 4.5Ah 24VDC battery pack is an ideal battery solution suited for 24VDC UPS applications, or other industrial applications where battery reserve power is required.

The aluminum powder coated housing includes a pluggable screw down terminal, and an externally accessible fuse for easy installation and maintenance. This battery pack mounts on standard T35 DIN rail and has dual clips for extra stability on the rail.

The two internal batteries are maintenance free, AGM sealed lead acid, and rated for up to 5 years of standby service. Spent batteries are easily replaced in the field and replacement battery sets are readily available.

RLH offers a variety of compatible DIN rail power supplies and charge controllers to complete your battery backup solution.

Key Features

- Includes dual DIN clips for extra stability
- DIN mountable
- Powder coated aluminum construction
- Easy to access pluggable screw down terminal
- Ideal solution for 24VDC battery backup applications
- Externally accessible replaceable fuse
- Includes sealed, maintenance free, lead acid batteries with AGM technology
- Up to 5 years of standby service

Ordering Information

Description	Part Number
24V 4.5Ah UPS Backup Battery Pack w/fuse and DIN mount	RLH-2404-2BP
Replacement Battery Set For RLH-2404-2BP	RLH-2404-RB



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Output Terminal and Fuse Holder

DIN Mounting

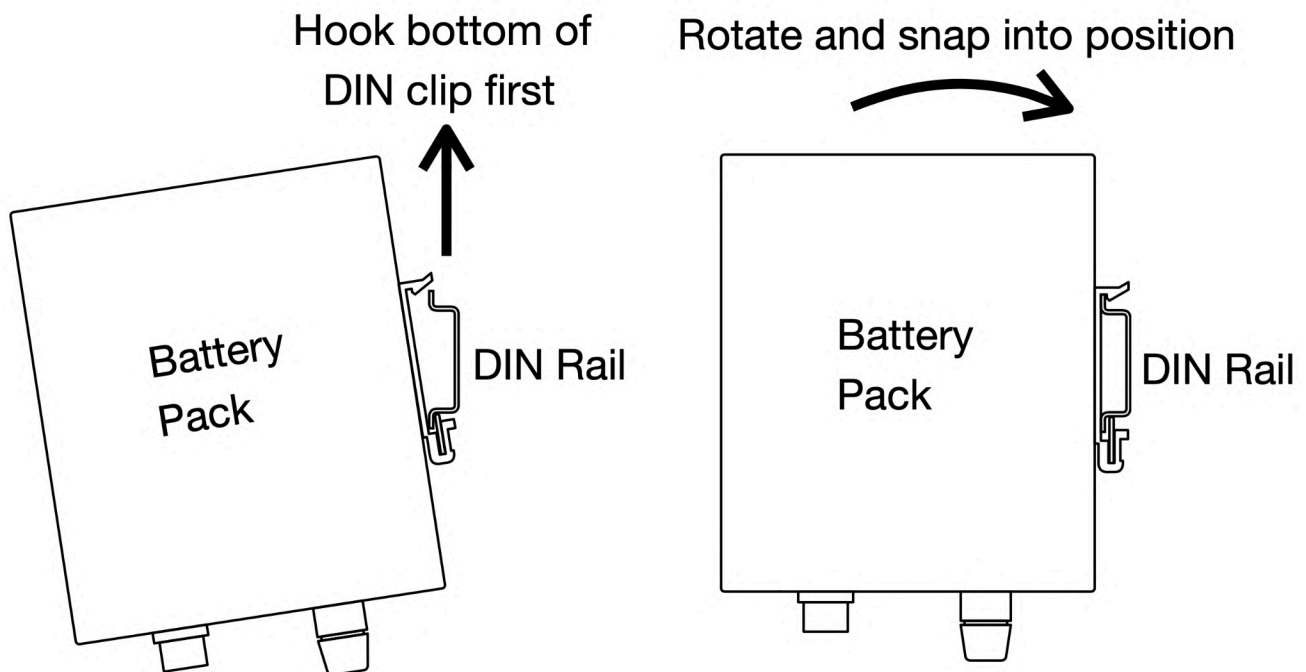
Prior to installation:

- Check for shipping damage
- Check the contents to ensure correct model and capacity
- Have a clean, dry installation environment ready

Required for installation:

- DIN rail for DIN mounting

Attach the battery pack to the DIN rail by engaging the bottom of the DIN clips onto the rail first, then push up slightly while rotating the top onto the rail. Check to make sure that the battery pack is securely mounted onto the DIN rail.



Charging & Discharging

Charging:

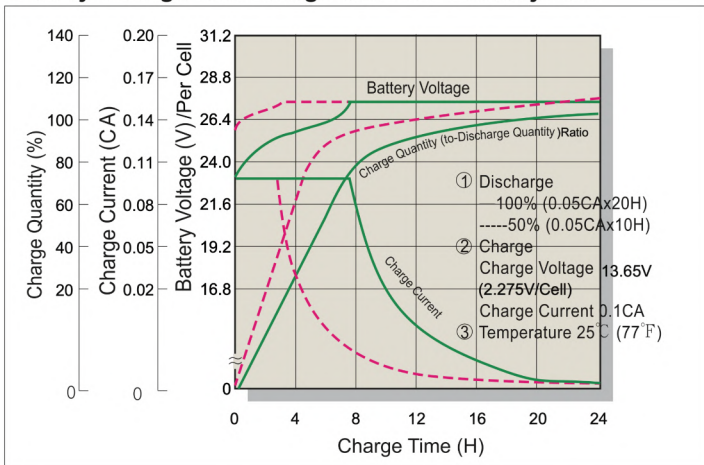
RLH's recommended charging voltage assumes that the charging voltage will be set to a fixed voltage and the batteries will be used across the entire operational temperature. The recommended set point ensures that the batteries do not receive an excessive charge in warm environments.

Most industrial power supplies will include a voltage adjustment feature. When adjusting the power supply voltage set point, ensure there is no load on the power supply. A multimeter should be used to ensure the power supplies DC output voltage is correctly set to the recommended charging voltage.

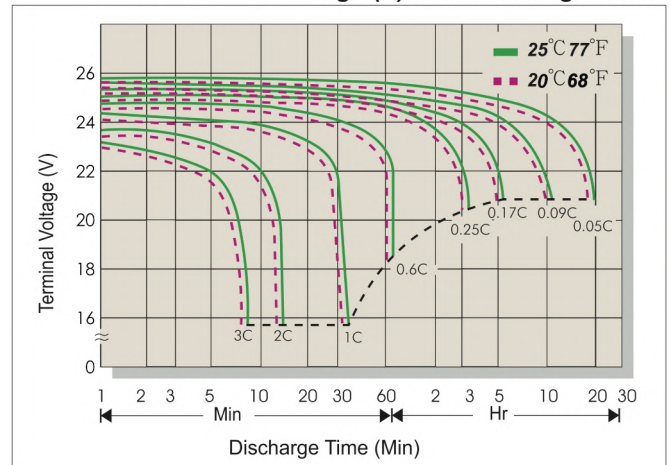
Discharging:

Ensuring the batteries do not over discharge is key to long term battery life. The number of cycles a sealed lead acid battery can support varies based on the depth of discharge. It is recommended to use a charge controller with a low voltage disconnect feature to help prolong the life of the batteries.

Battery Voltage and Charge Time for Standby Use



Terminal Voltage (V) and Discharge Time



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Key Specifications

Battery Pack Construction:	Powder Coated Aluminum
Dimensions:	10.38" (W) x 3.58" (D) x 5.64" (H), (264mm x 91mm x 144mm)
Mounting:	DIN Clip for T35 DIN Rail
Power Connection:	Screw down power terminals
Weight:	7 lbs. (3.2kg)
Internal Batteries:	Quantity 2, 12VDC, 4.5Ah
Battery Type:	Lead acid deep cycle AGM, spill proof, maintenance free
Nominal Voltage:	24VDC
Capacity:	4.5Ah @ 25°C
Included Fuse:	6A, user replaceable
Operating Temperature Range:	Discharge: -15°C ~ 50°C (5°F ~ 122°F) Charge: -15°C ~ 40°C (5°F ~ 104°F) Storage: -15°C ~ 40°C (5°F ~ 104°F) *Extreme temperatures will reduce the storage time as well as the life of the batteries
Recommended Charging Voltage:	26.3VDC
Recommended Charging Current Limit:	0.45A
Maximum Recommended Charging Current Limit:	1.35A
Self Discharge:	Less than 10% after 90 days; battery pack can be stored for up to 6 months at 25°C (77°F) *Batteries must be charged prior to use

USER GUIDE**Contact**

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