

USER GUIDE

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UG-M075 2024-06-07

24VDC 1.2Ah DIN Mount Battery Pack

Ideal for Temporary Backup for Low-Powered Electronics

This battery pack is designed to be part of a UPS system and supply temporary power to industrial equipment in the event of a primary power loss. These are a great way to add backup battery power to RLH power supplies with a compatible UPS charge controller, and the compact design allows for installation where space is tight.

They mount quickly to standard T35 DIN rails, and include a wall mount adapter plate for wall mount applications. The housing is constructed of durable powder coated aluminum alloy with easily accessible screw down terminals for wiring, and includes an externally replaceable fuse to protect the battery circuit.

The internal batteries are maintenance free sealed lead acid batteries rated for up to 5 years of standby service or more than 400 cycles at 50% discharge depth. Depleted batteries are field replaceable and replacement sets are available.



24VDC 1.2Ah DIN Mount Battery Pack

Key Features

- DIN or Wall mount
- Compact design
- Ideally suited for 24VDC UPS applications
- Removable terminal block for easy disconnect
- Externally accessible and user replaceable fuse
- Sealed, no-spill lead acid battery design
- Up to 5 years of stand by service

Ordering Information

Description	Part Number
24 Volt DC Battery Pack with 1.2Ah Capacity, DIN or Wall Mountable	RLH-2401-1BP
Replacement Battery Set For RLH-2401-1BP	RLH-2401-1RB

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Installation

Prior to installation:

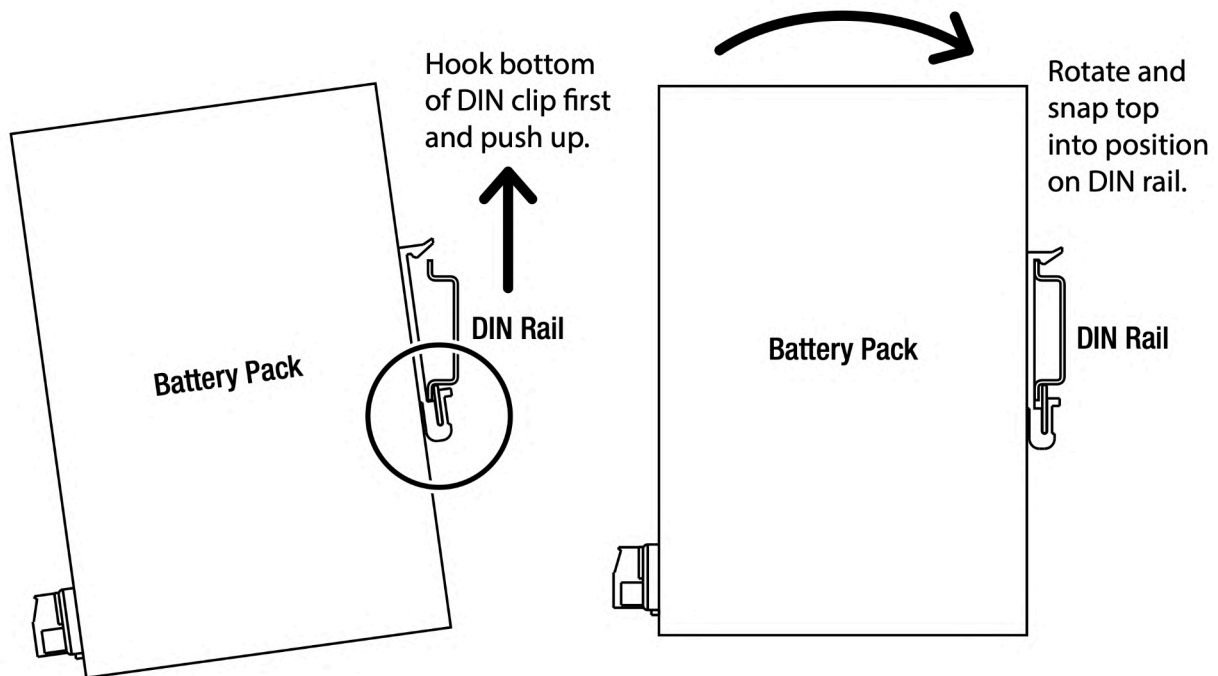
- Check for shipping damage
- Check the contents to ensure correct model and capacity
- Have a clean, dry installation environment ready

Required for installation:

- DIN rail for DIN mounting
- Wall mount plate for wall mounting

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.



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Installation (cont'd)

Wall Mounting

Remove the DIN clip and install the included wall mount plate. Reuse the screws from the DIN clip, and orient the plate with the slotted hole at the top. Mount the battery pack to the wall or other surface using the top and bottom holes. The slotted hole at the top allows you to hang the unit first, then fasten it in place using the bottom hole.

Connect Contact Wires

Connect the battery wiring to the screw down terminal on the front. Observe the polarity markings next to the terminal block. The terminal block itself may be removed from the battery pack for ease of installation by loosening the small slot head screws on both sides of the terminal block. Seat the connector fully when reinstalling and tighten the screws to ensure a good electrical connection.

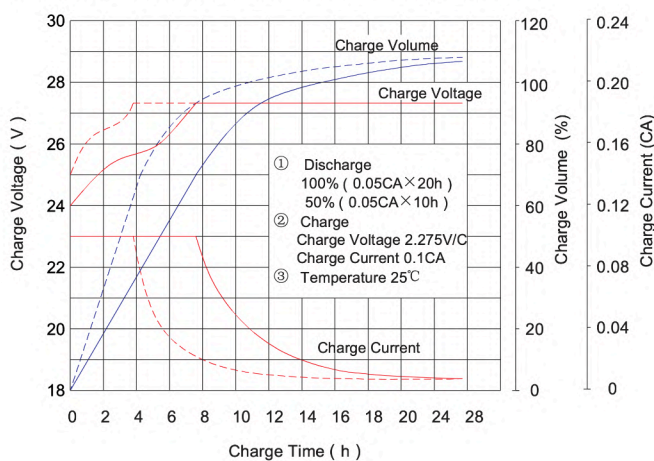
Install Fuse

Remove the fuse holder cover and install the included fuse. Refer to the specifications section for the replacement fuse rating.

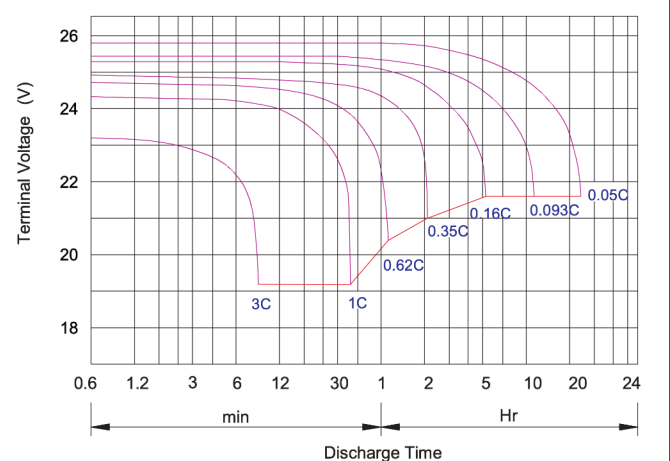
Note: Power is applied to the screw down terminals once the fuse is inserted.

Charging & Discharging

Charge characteristic Curve for standby use



Discharge characteristic Curve



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Battery Pack Construction:	Powder coated aluminum alloy with screw down cover plate		
Dimensions:	2.5" (W) x 3.7" (D) x 5.5" (H), (64mm x 94mm x 140mm)		
Weight:	1.4 kg/3 lbs.		
Mounting:	DIN Clip for T35 DIN Rail Wall mount plate included for non-DIN rail mounting applications		
Power Connection:	Removable screw down power terminals		
Internal Batteries:	Quantity 2, 12VDC, 1.2Ah, field replaceable		
Battery Type:	Lead acid deep cycle, spill proof, maintenance free		
Nominal Voltage:	24VDC		
Capacity:	1.2Ah @ 25°C		
Included Fuse:	3A, user replaceable		
Operating Temperature Range:	Discharge: -20°C ~ 60°C (-4°F ~ 140°F) Charge: -20°C ~ 60°C (-4°F ~ 140°F) Storage: -20°C ~ 60°C (-4°F ~ 140°F) *Extreme temperatures will reduce the storage time as well as the life of the batteries		
Charging Voltage:	Standby Use: 27.3V ±0.3V @25°C (77°F) Cycle Use: 29.4V ±0.6V @25°C (77°F)		
Maximum Recommended Charging Current Limit:	0.39A		
Self Discharge:	After 3 months Approximately 90% @25°C (77°F) Remaining Charge After 6 months Approximately 82% @25°C (77°F) Remaining Charge After 12 months Approximately 70% @25°C (77°F) Remaining Charge		

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