

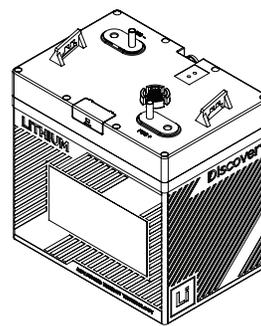
This document describes the DLP-GC2-24V battery and the Battery Discharge Indicator (BDI) operation, and it is for users and operators of the Lithium Walkie Pallet Jack.

It is not intended for configuration, maintenance, or installation.

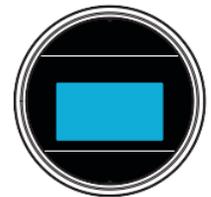
BATTERY DISCHARGE INDICATOR



- State-of-Charge (SOC) Battery Fuel Gauge
- Time-to-Go Readout (charge and discharge)
- Voltage and current
- Indicates faults and warnings



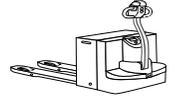
DLP-GC2-24V Battery
(900-0052)



Battery Discharge Indicator Type A
(950-0044)

OPERATION

- Charge times are 2 to 3 hours from empty with a standard 650 W charger on a single battery. If charging two batteries in the system with the charger, the charge time is doubled.
- Connecting the walkie pallet jack to a charger when not in use increases machine productivity and extends runtime and lithium battery lifetime. The DLP-GC2-24V lithium battery is designed for regular opportunity charging.
- The external ON/OFF button turns the battery ON and OFF. If the walkie pallet jack is being stored or is waiting for deployment, make sure the battery is turned OFF until the walkie pallet jack is put into use. Both the battery and walkie pallet jack draw small amounts of power, which slowly discharges the battery. Turning the battery off reduces the rate of discharge.
- The BDI gauge provides useful information for the operator, such as when the battery is charging. This information is helpful for identifying unplugged AC power cords, tripped breakers, and so on.



TROUBLESHOOTING

There is no power to the lift, and BDI is OFF.

- If the battery is OFF, it was manually turned OFF or entered low-voltage protection. Touch the ON/OFF button on the battery to try turning it ON. If the battery remains OFF, recharge it.
 - After turning ON the battery with either the external ON/OFF button or the button on top of the battery, the LED on top of the battery lights up green, and the BDI display should be illuminated.

There is no power to the lift, and BDI is ON.

- Check to see if the walkie pallet jack's display has any faults. If it does, contact your support team for the walkie pallet jack.

The lift will not operate.

1. Check whether the BDI is ON and displaying any faults or warnings. If it is OFF, turn the batteries ON with either the external ON/OFF button or the button on top of the battery.
2. If the battery is ON and the lift does not operate, confirm the Lift Lockout is ON (disabled) and that there are no active faults on the lift.
3. If the Lift Lockout is OFF and the battery is ON, contact your support team for the walkie pallet jack for further diagnosis.

I am not getting the expected runtime.

- Fully charge the batteries (overnight or over a weekend). After connecting the charger, confirm the AC power is on (check the breaker) and that the BDI indicates the battery is charging.

The BDI display indicates a fault, is flashing, or displays a fault number.

- The battery automatically recovers from all faults except the low-voltage fault. Repeated low-voltage faults could damage the battery, voiding the warranty.
 - A low-voltage fault shuts down the battery and turns off the BDI. Immediately connect the charger, and once the battery is fully charged, manually turn the batteries back on.

FAULT NUMBER

Number	Fault/Warning	Recovery
1	Low voltage	The battery is shut down. Connect the charger and turn the battery ON to charge the battery.
2	Over voltage	Decrease charge voltage and automatically recover after 120 seconds.
3	Under temperature	Charge the battery to turn ON the internal heater.
4	Over temperature	Automatic recovery after the battery cell temperature drops to an acceptable level.
5	Over-discharge current	Discharge current exceeds the battery rating.
6	Over-charge current	The charge current is too high. Consider derating the charge current before continuing.
7	Load qualification	The battery failed load qualification at startup. Check to see if there is a short circuit, reverse polarity, or batteries at a higher SOC connected in parallel.
10	Under-temperature in charge	Continue charging to engage the internal heater. Charging will continue once the battery cell temperature reaches 4°C (39.2°F) or higher.
13	Over-temperature in charge	The battery stops charging and will continue charging only after the battery temperature is below the recovery threshold.

Contact your support team for the walkie pallet jack if you need more support.