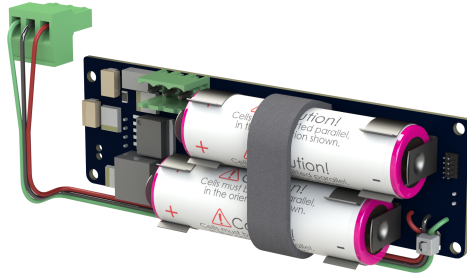


M6103 Li-ion Battery Card



Module Description:

General	Rechargeable battery pack with inbuilt charger
Cells	3500mAh Li-ion x 2
Input Power Supply	Input: 12-24VDC (25W min)
Typical Charge Time	6 hours
Battery Life	C320: 100 Hours. C350/C357: 50 Hours
Cycle Life	>500 discharge-charge cycles typical
Output voltage	5VDC

The Li-ion battery with inbuilt charger is designed to allow safe and fast charging while supplying power to the connected indicator. Operation is fully automatic. Charging typically takes around 6 hours to complete.

When the input power supply is disconnected from the pack, the indicator will automatically be supplied from the battery providing sufficient charge remains.

When the device is running on battery power, the backlight level is automatically reduced to 25% of the configured BL.LVL value. At the default setting where BL.LVL is set to 60%, the backlight will operate at 15% during battery discharge. It is also recommended that the backlight operation (B. LIGHT) setting is set to AUTO to increase runtime.

Cell Installation:

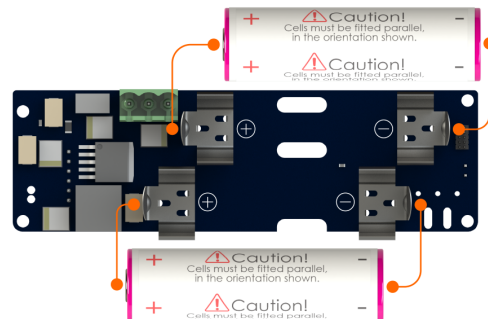
To ensure safe and reliable operation, it is critical that the battery cells are installed in the correct orientation and secured using the supplied strap.

- Observe the polarity markings on both the battery cells and the circuit board.
- Match the positive (+) and negative (-) terminals of each cell with the corresponding symbols on the circuit board.
- After installing the cells into the pack, external power must be connected to reset the cell protection circuitry and “wake up” the pack.

Caution!

Cells must be fitted in the orientation shown. Installing cells incorrectly may cause overheating and damage to the product.

Only the supplied cells are to be used. Do not use generic cells in this product.



The battery charger supports 2 Red LED annunciators to show status.

Status Annunciator	Meaning
LED A Lit	DC input connected
LED B Flashes	Charger monitoring is active

The C3 Indicator will indicate battery charge level using the battery annunciator on the LCD. When charging, the upper most active segment of the battery annunciator will flash in addition to the remaining active segments. This indicates charging, and the current state of charge. When discharging, The upper most active segment will not flash. The active segments will display to indicate the current state of charge. During charging it is normal for the battery pack to get warm. The temperature is monitored, and charge current may be reduced if the temperature becomes excessive. This is most likely to occur when the ambient temperature is high, and will result in an extended charging time.

Module Troubleshooting:

Problem	Possible solutions
Battery gets warm	<ul style="list-style-type: none"> It is normal for the battery to get warm during charging.
Insufficient battery life	<ul style="list-style-type: none"> Reduce system power requirements: Turn off or reduce backlight brightness; enable auto power-off (if supported); etc.
With Input Power Supply connected, LED Status Annunciator never lights	<ul style="list-style-type: none"> Check input power supply wiring and polarity. Check input voltage: The charger requires a minimum of 12V.

Module Connections:

The battery pack is normally factory fitted, however if you have purchased it as an accessory it is to be installed as follows:

