

Battery Safety Data Sheet - Model BAT2

Battery Model:	4S2P18650
Revision:	A0
Cell Manufacturer	Panasonic/Sanyo/LG
Nominal Voltage	14.8V
Nominal Capacity	6750mAh
Power Rating	99.9 Wh
Interior Resistance	<350mOhm
Max Charge Voltage	16.8V
Min Discharge Voltage	10.0V
Max Continuous Discharge	6800mA
Peak Discharge (surge)	10A

Max Continuous Charge Current	3400mA
Charging Time - Standard	6.5H
Charging Time - Quick Charge	3.5H
Weight	450g
Overcharge Protection	17.0V
Overcharge Release Voltage	16.6V
Low Voltage Detection	10.0V
Over Current Detection	20A
Over Current Detection Delay	25ms max
Leakage Current	<12uA
Connection Wire	22AWG-stranded, 150mm
Connector	JST 2.5mm plug
Connector Polarization	Match to CR convention

Important Precautions For Rechargeable Battery Packs

Charge The Battery Before Use

- To meet shipping regulations, a Lithium-Ion rechargeable battery has only about 20% of a full charge. You must fully charge the battery before using it.

Battery Pack Parallel Connections

- Do not parallel more than 2 battery packs to avoid uneven charge and excessive charging time.

Plug Polarity Convention

With the release of the BAT2 pack, CVP Products has adopted the polarization used on batteries from Cordless Renovations (CR). This will insure a trouble-free transition from the weaker CR battery to the more powerful, longer lasting CVP battery.

Charging Precautions

- Li-ion battery packs must be charged correctly and with the correct charger.
- Improper charging will shorten the pack's lifetime.
- Improper charging may cause overheating, fire or explosion.
- Use only a battery charger designed for 14.8V Lithium-Ion packs.
- We strongly suggest the use of the matching CVP Smart Charger.
- Never use a conventional DC adapter to charge the battery PAK. CVP IS NOT responsible for any damage that is caused by improper charging.

Battery Protection

- Never drill, puncture or open a lithium battery pack.

Battery Storage

- Store in a cool, dry and well-ventilated area. Best temperature range is between 32F and 80F.

- Keep away from the fire and sources of high temperatures.

- To avoid over-discharge, charge the batteries every three months.

Drop-In and Plug-In AIRWIRE Decoder Changes

All shipments of the AirWire decoders will be changed to use the new CVP battery. Users will not have to solder a connector to the battery. For more details, download the Decoder Change Notice on the Drop-In web page.

You must verify and validate that the battery pack plug is correctly polarized for your application.

Warnings

- The battery pack is not a toy. Keep it out of reach of children.
- **Do not cut off the plug. Warranty will be void if plug is removed.**
- Do not reverse battery charging terminals.
- Do not dispose of battery in fire.
- Do not accidentally short the battery terminals.
- Avoid excessive physical shock and vibration.
- Do not disassemble the battery or remove the plug.
- Do not immerse battery in water.
- **CVP is not responsible for any damage caused by misuse or mishandling of these Li-Ion battery packs.**

Limited Warranty on The BAT2 Rechargeable Lithium-Ion Battery

CVP Products provides a 90 day limited warranty on the BATT2 14.8V - 6800mAh battery if it fails to work properly within 90 days from the date of purchase. If the battery fails, CVP Products will replace it at no charge to you except for shipping. This is a limited warranty and subject to the following limitations and exclusions.

Abuse & Misuse: Defects or damage that result from: A) improper operation, storage, misuse or abuse, accident or neglect, such as physical damage (cracks, scratches, etc.) to the surface of the product resulting from misuse; B) contact with/or or emersion in liquid, water, rain,

extreme humidity or exposure to extreme heat. C) use of the battery in an application for which it was not intended; D) removal of plug; E) other acts which are not the fault CVP Products; are excluded from coverage.

Alterations: Any dismantling or de-struction of the battery or removal or modification of the plug voids the warranty.

Unauthorized Service or Modifications: Defects or damages resulting from service, testing, adjustment, installation, maintenance, alteration, including without limitation, modifications in any way by someone other than CVP Products or its authorized dealers are excluded from coverage.

Drop-In And Plug-In Decoder Battery Connector Change Notice

To better serve all AirWire customers and authorized dealers, the battery connector has been changed on all Drop-In and Plug-In decoders. This change is effective on July 1, 2016. If you have any questions, contact CVPProducts directly.

Want To Change Your Old Decoders To New Style Socket?

The matching socket for the BATT2 battery is available from CVP Products. You must unsolder the old plug first and discard. Clean out the solder pad holes.

Trim the new wires on the new socket to length. Strip about one half inch of wire from each end. Tightly twist the strands together and tin them with solder. Insert the red wire into the square pad. Insert the black wire into the round pad. Solder the wires to the pads.

Double check that your BATT2 battery red wire connects to the red wire on the new socket.

