



BC2D1301



Li-Ion Smart Battery Belt Pack Charger w/ 13V Output Instructions for use

The BC2D1301 is an Li-Ion smart battery charger designed for charging any Inspired Energy Ni2020xxxx or NL2020xxxx batteries. The belt pack has an additional boosted 13.2V output for external use.

What's in the box?

1. One (1) BC2D1301 - Belt Pack Charger with 13V Output
2. One (1) 906010 - Battery Pouch
3. One (1) 24V 2.1A DC power supply with universal mains input
 - N. American chargers (BC2D1301A) are packed with a US 3-pin mains cord
 - European chargers (BC2D1301E) have a European 2-pin + ground recess mains cord
 - UK chargers (BC2D1301U) are packed with a UK 3-pin mains cord

Safety:

1. Do not expose the charger to water or liquids.
2. Do not open the belt pack charger case, no user serviceable parts are inside.
3. Avoid shorting.
4. Only approved batteries should be used.
5. Never use a modified or damage battery or adapter.
6. Caution - during use the belt pack charger connector(s) may become warm.
7. Do not exceed the rated 4.5A on the output.

Using the Charger:

With the 24V power supply plugged into the belt charger, insert an Inspired Energy Ni2020 or NL2020 battery pack into the belt pack charger.



Using the Output:

With an Ni2020xxxx or NL2020xxxx battery plugged into the belt charger, 13V will be present on the output. If the battery reaches 0% state of charge, the output will be turned off. The output can be used while simultaneously charging the battery.

Output Overview:

The output of the BC2D1301 is rated at 60W. The output is capable of up to 4.5A continuous. Applying more than 4.5A continuous on the output will cause failure and render the output useless. If the battery used to power the output is not an Inspired Energy Ni2020xxxx or NL2020xxxx, then the output will not operate properly.

Power Source:

Only a 24V 2.1A capable power supply should be used to power the 24V input to the charger. Only Ni2020xxxx and NL2020xxxx Inspired Energy batteries should be used to power the output.

LED Indication:

There are 4 green LEDs for state of charge and 1 red LED for error on the belt pack charger. During charging, the green LEDs flash, indicating the state of charge of the battery pack as shown in the table below.

LED Status	State of Charge
One green LED on	0-24%
Two green LEDs on	25-49%
Three green LEDs on	50-74%
Four green LEDs on	75-100%

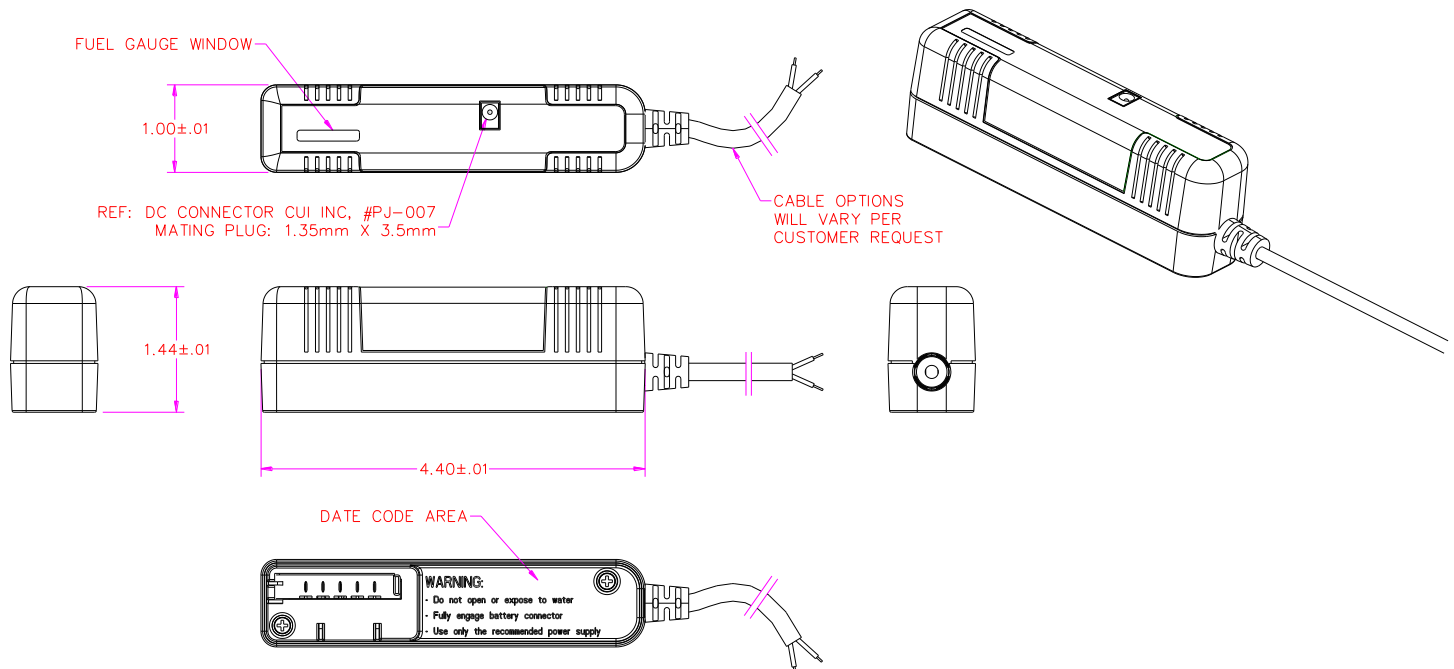
Additionally, all 4 green LEDs will stay on if the battery is discharging $>50\text{mA}$. The red error LED will turn on if the charger cannot communicate with either the smart battery or the internal charger unit.

Compatibility:

The BC2D1301 is fully compatible with all Inspired Energy® brand “Ni2020” & “NL2020” Series standard battery packs and their custom hybrids. For optimum results we recommend using only Inspired Energy® brand batteries. For a full list of all compatible Inspired Energy batteries, please visit:

www.inspired-energy.com

MPL205-2BVG01 Specification Summary	
Weight:	0.099kg / 3.488oz
Height:	36.58mm / 1.44"
Length:	111.76mm / 4.40"
Width:	25.4mm / 1.00"
Mating Connector:	Input Power: 1.35x 3.5mm DC barrel connector is CUI CA-2197 Battery Connector: AMP 57874221 5-Pin Blade Connector
Communications Compliances:	System Management Bus Rev 1.1, Smart Battery Data Specification Rev 1.1 and Smart Battery Charger Specification Rev 1.1 compliant
Power Source:	24V 2.1A Power Supply, Ni2020xxxx or NL2020xxxx Inspired Energy Battery



Note: Dimensions are in inches [mm]