



*Illustration similar

1S1P H2B490 Battery Pack

- 1S1P Li-Ion Battery pack
- 3.6V nominal voltage
- 12Wh capacity
- <2A discharge
- Shrink Foil

1S1P H2B490 Battery Pack

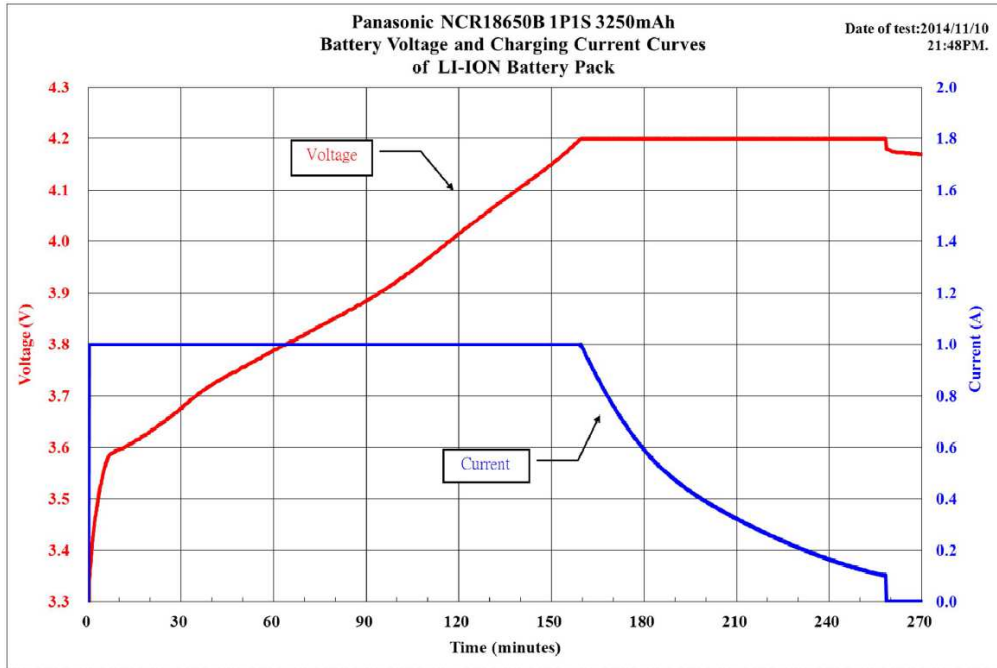
Specifications

Item	Descriptions	Specifications	Remark
1	Model Number	H2B490	
2	Cell	Panasonic NCR18650B	
3	Configuration	1S1P	
4	Nominal Voltage	3.6V	3.6V*1S
5	Nominal Capacity	3.25Ah	3.25Ah*1P
6	Watt-Hour (UN38.3)	12Wh	Calculated: 12Wh(V * Ah)
7	Internal Resistance	<150mΩ	Measure from output terminal of battery pack
8	Recommended operation Temperature	Standard Charge Standard Discharge	0°C ... +40°C -20°C ... +60° C
9	Storage condition	< one month < three months < one year	-20°C ... +50°C -20°C ... +40°C -20°C ... +20°C Percentage of recoverable capacity 80%
10	Humidity	45 ... 85%	
11	Charging Voltage (Maximum)	4.2V	
12	Charge Current	<2.0A	
13	Discharge Current avg.	<2.0A	
14	BMS Design	(1) Over charge voltage threshold (2) Over discharge voltage threshold (3) Over current protection 1 st level (4) Over current delay time 1 st level (5) Short circuit protection (6) Short circuit protection delay time (7) IR	(1) 4375 ±25mV (2) 2580 ±80mV (3) 3 ~ 4A (4) 26ms (5) >34.9A (6) 50μs delay time (7) <150mΩ
15	Connection type and pin definition	2 wires, length of 100mm ±10mm (Red P+ / Black P- / UL1007, 26AWG)	
16	Enclosure	Heat shrink	
17	Weight (g)	48g ±5g	
18	Dimension(mm)	Length: 69 ±0.5mm Diameter: 18.5 ±0.3mm	
19	IP standard	IP20	
20	Certifications	UN38.3, 6 th edition IEC62133-2: 2017 CE	

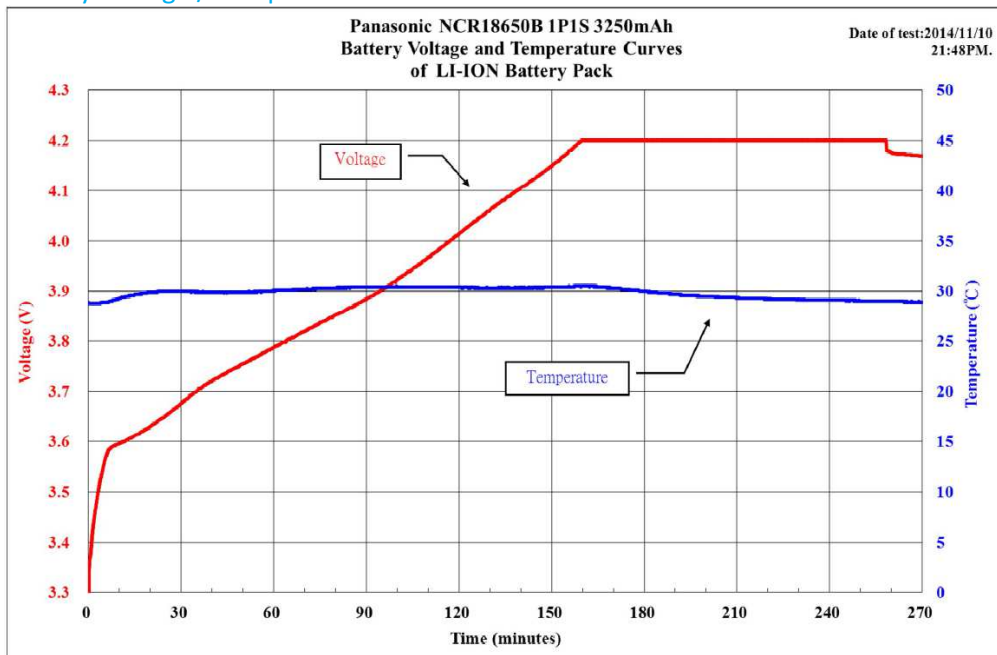
1S1P H2B490 Battery Pack

Performance Curves

Charge: Battery Voltage / Charge Current



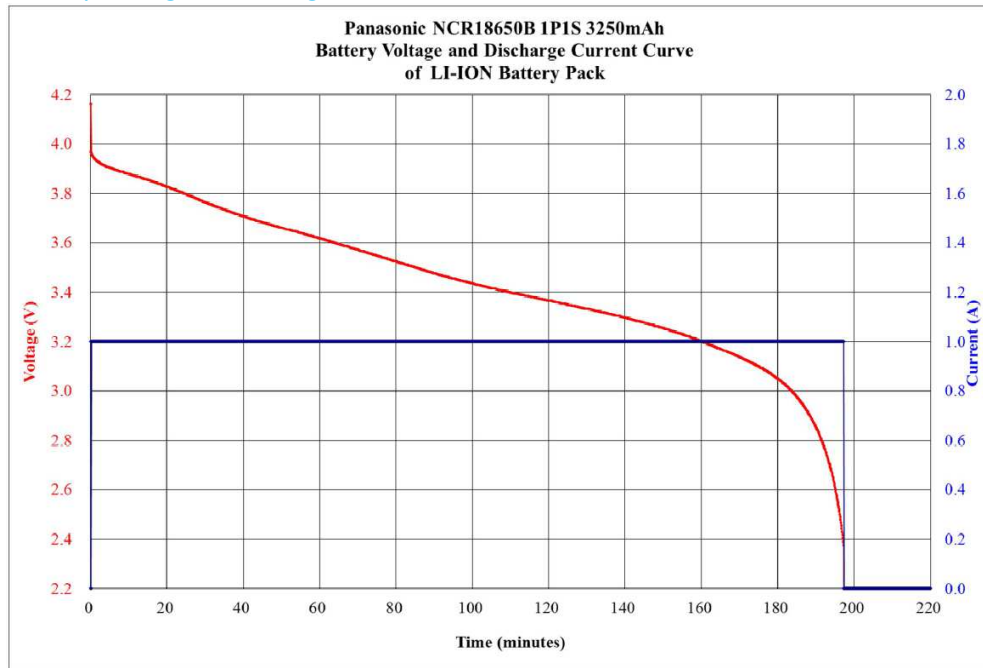
Charge: Battery Voltage / Temperature



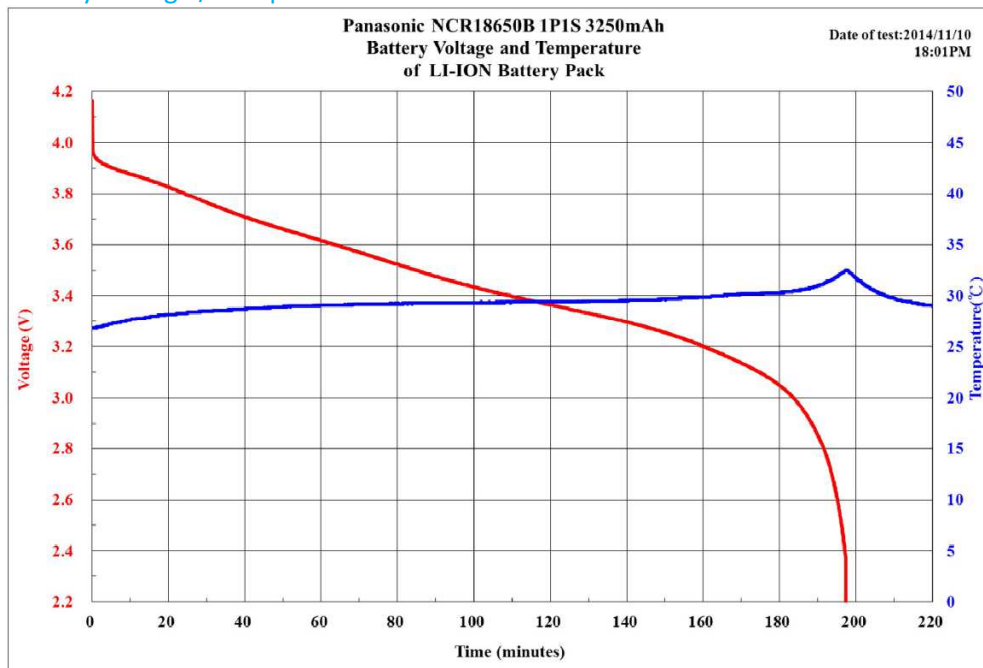
1S1P H2B490 Battery Pack

Performance Curves

Discharge: Battery Voltage / Discharge Current



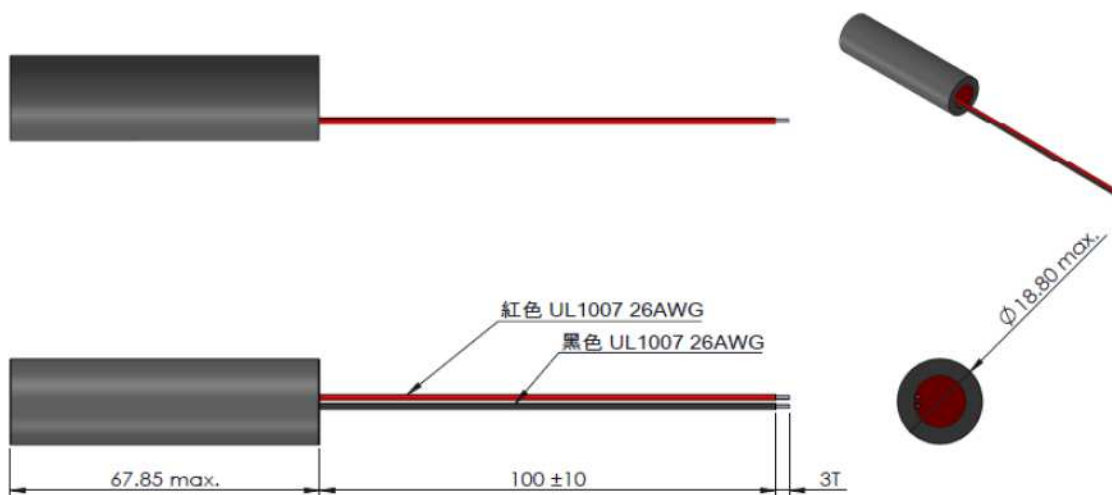
Discharge: Battery Voltage / Temperature



1S1P H2B490 Battery Pack

Mechanical

Drawing



Connector:

none

Label:

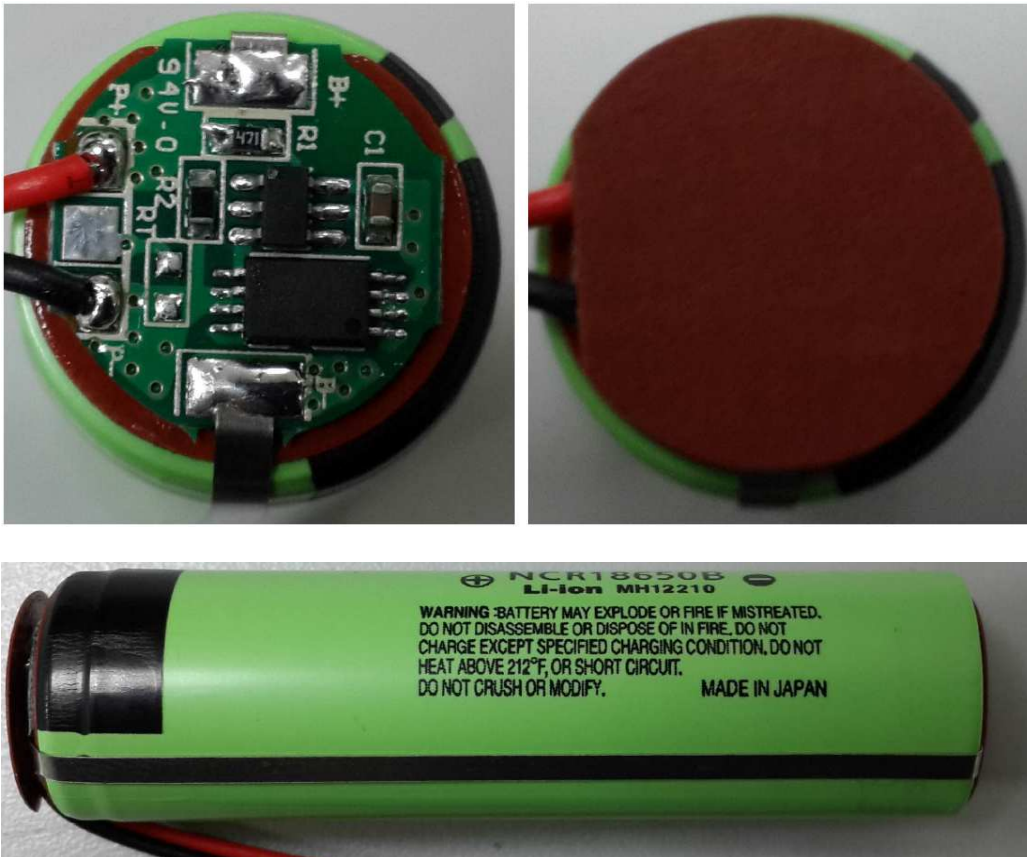
Material: Polyester
Size: L45mm x W25mm

Date Code: Www/yy
Www: Calendar week
Yy: Year (last 2 digits)

1S1P H2B490 Battery Pack

Photos

(*illustration similar)



Accessories

Item	Part number	Remark
Charger	TBD	On request

1S1P H2B490 Battery Pack

Contact

HY-LINE AG

Hochstrasse 355
CH-8200 Schaffhausen

Support:

+41 (0) 52 / 647 42 00

+41 (0) 52 / 647 42 01

Mail us:

info@hy-line.ch



HY-LINE AG

HY-LINE AG belongs to the HY-LINE group, a group of specialized distributors.

HY-LINE AG is a specialist in batteries and systems. In addition to standard batteries and charging and maintenance systems, the focus is on the development and design of custom-specific batteries and systems.

HY-LINE® is a registered trademark of the HY-LINE Group.
Energy_Datasheet_H2B490_1S1P | January 2021
Subject to changes without notice | All Information without guarantee
Picture credits: © Shutterstock_42109809;
© 2021, HY-LINE Group