ENERGY SYSTEMS

Datasheet
01/21



*illustration similar

1S1P HI0101SN01 Battery Pack

- 1S1P Li-Ion Battery pack
- 3.6V nominal voltage
- 3.35Ah nominal capacity, 12Wh (UN38.3)
- Panasonic premium quality cell NCR18650B
- High storage performance
- Shrink Foil

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1S1P HI0101SN01 Battery Pack

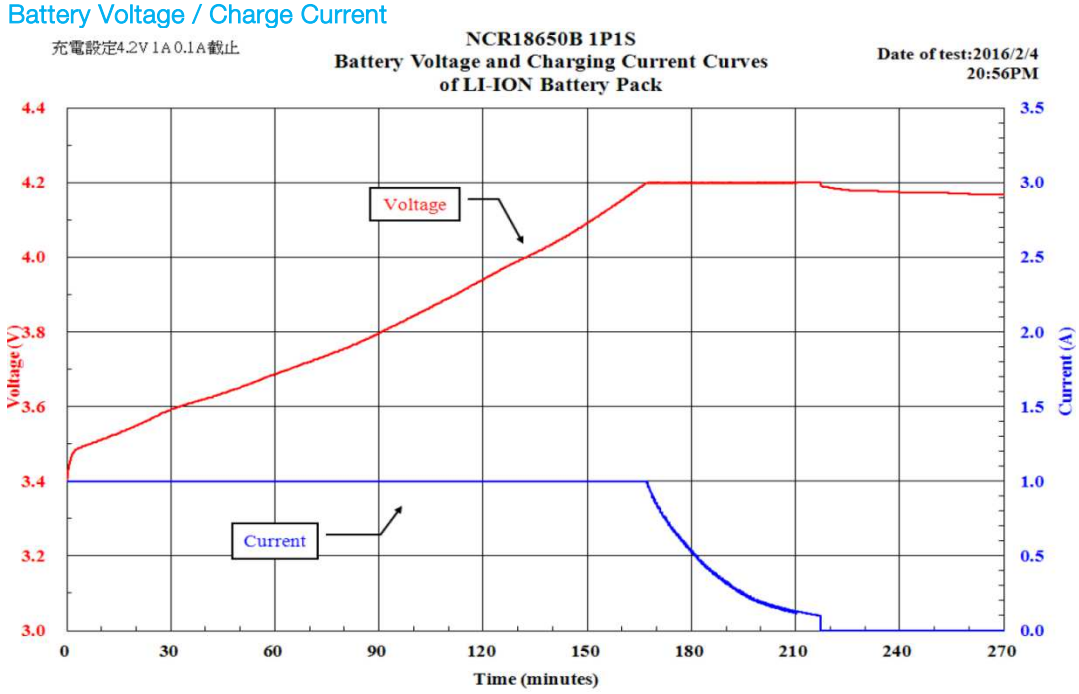
Specifications

Item	Descriptions	Specifications		Remark
1	Model Number	HI0101SN01		
2	Cell	Panasonic NCR18650B		
3	Configuration	1S1P		
4	Nominal Voltage	3.6V		3.6V*1S
5	Nominal Capacity	3.35Ah		3.25Ah*1P
6	Watt-Hour (UN38.3)	12Wh		Calculated: 12Wh (V * Ah)
7	Internal Resistance	<100mΩ		Measure from output terminal of battery pack
8	Recommended operation Temperature	Standard Charge Standard Discharge	0°C … +45°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	<1.0A		
13	Discharge Current avg.	<1.0A		
14	BMS Design	(1) Over charge voltage threshold (2) Over discharge voltage threshold (3) Over current protection 1st level (4) Over current delay time 1st level (5) Short circuit protection (6) Short circuit protection delay time (7) IR		(1) 4325 ±25mV (2) 2500 ±50mV (3) 6 ±2A (4) 9 ±2ms (5) 46A ±12A (6) 300 ±80µs (7) <100mΩ
15	Connection type and pin definition	Positive +: steel contact plate Negative -: electroless nickel, immersion gold		
16	Enclosure	Heat shrink		
17	Weight (g)	48g ±2g		
18	Dimension(mm)	Length: 69 ±0.5mm Diameter: 18.5 ±0.3mm		
19	IP standard	IP20		
20	Certifications	UN38.3, 6th edition IEC62133-2: 2017 CE		

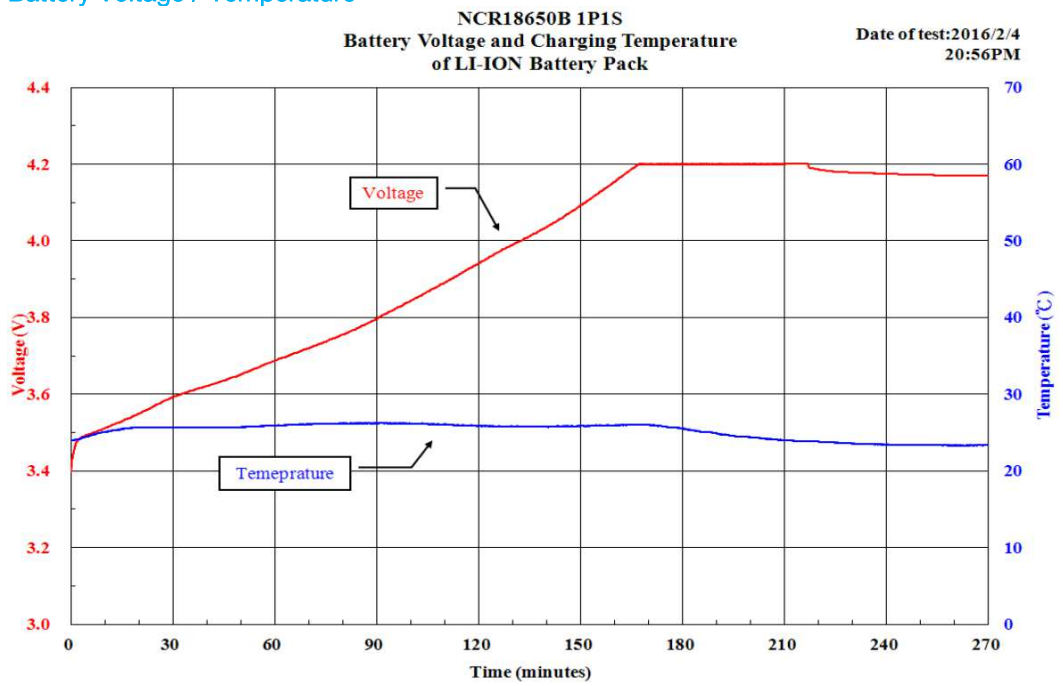
1S1P HI0101SN01 Battery Pack

Performance Curves

Charge: Battery Voltage / Charge Current



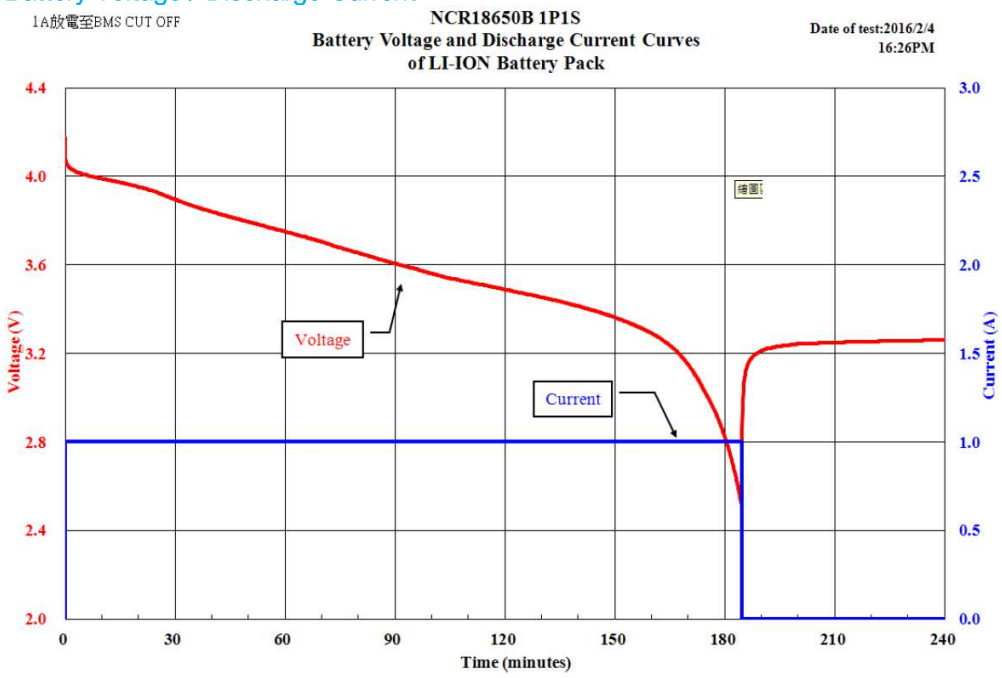
Charge: Battery Voltage / Temperature



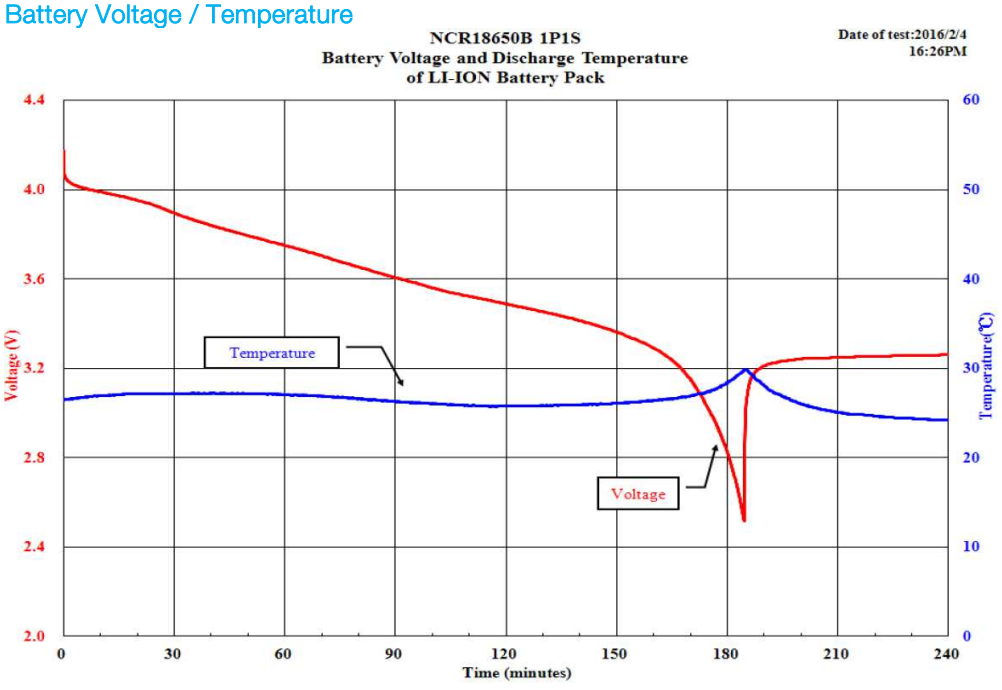
1S1P HI0101SN01 Battery Pack

Performance Curves

Discharge: Battery Voltage / Discharge Current



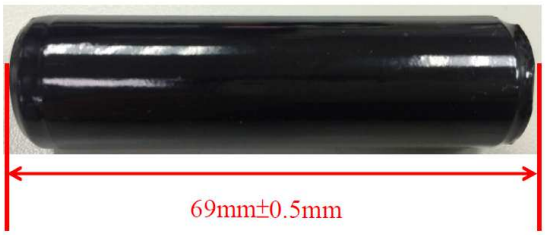
Discharge: Battery Voltage / Temperature



1S1P HI0101SN01 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 HI0101SN01 Battery Pack

Photos

(*illustration similar)



Packaging



Battery pack in plastic bag

Accessories

Item	Part number	Remark
Charger	TBD	On request

1S1P HI0101SN01 Battery Pack

Contact

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ENERGY SYSTEMS

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.

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