



Datasheet 11/2024



*illustration similar

1S1P HI0101SN05 Battery Pack

- 1S1P Li-Ion Battery pack
- 3.6V nominal voltage
- 3.35Ah nominal capacity, 12Wh (UN38.3)
- Panasonic premium quality cell NCR18650BF
- High storage performance
- Shrink Foil

1S1P HI0101SN05 Battery Pack

Specifications

Item	Descriptions	Specifications	Remark
1	Model Number	HI0101SN05	
2	Cell	Panasonic NCR18650BF	
3	Configuration	1S1P	
4	Nominal Voltage	3.6V	3.6V*1S
5	Capacity	3.2Ah	3.2Ah*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 ... +45°C -20°C ... +60° C
9	Storage condition	< one month < three months	-20°C ... +50°C -20°C ... +40°C Percentage of recoverable capacity 80%
10	Humidity	30 ... 80%	
11	Charging Voltage (Maximum)	4.15V	
12	Charge Current	<1.5A	
13	Discharge Current avg.	<1.0A	
14	BMS Design (1S-11B)	(1) Over charge voltage threshold (2) Under voltage threshold (3) Over charge current threshold (4) Over discharge current threshold (5) Short circuit protection (6) Short circuit delay time (7) Pack internal resistance	(1) 4.20 ±0.025V (2) 2.80 ±0.05V (3) 2.0 ±0.8A (4) 3.0 ±0.55A (5) 10.0 ±4.0A (6) 300 ~ 360μs (7) <150mΩ
15	Connection type and pin definition	Positive +: steel contact plate Negative -: electroless nickel	
16	Enclosure	Heat shrink	
17	Weight (g)	48g ±2g	
18	Dimension(mm)	Length: 69.3 ±0.5mm Diameter: 18.8 ±0.3mm	
19	IP standard	IP20	
20	Certifications	UN38.3 Rev. 7 IEC 62133-2 :2017/AMD1:2021 BS EN 62133-2:2017/AMD1:2021 IEC 60601-1-2 :2014+A1:2020 BS EN 60601-1-2 :2015+A1 :2021 CE and UKCA UL2054	UN Transport Test Safety Safety UK EMC EMC UK DoC

1S1P HI0101SN05 Battery Pack

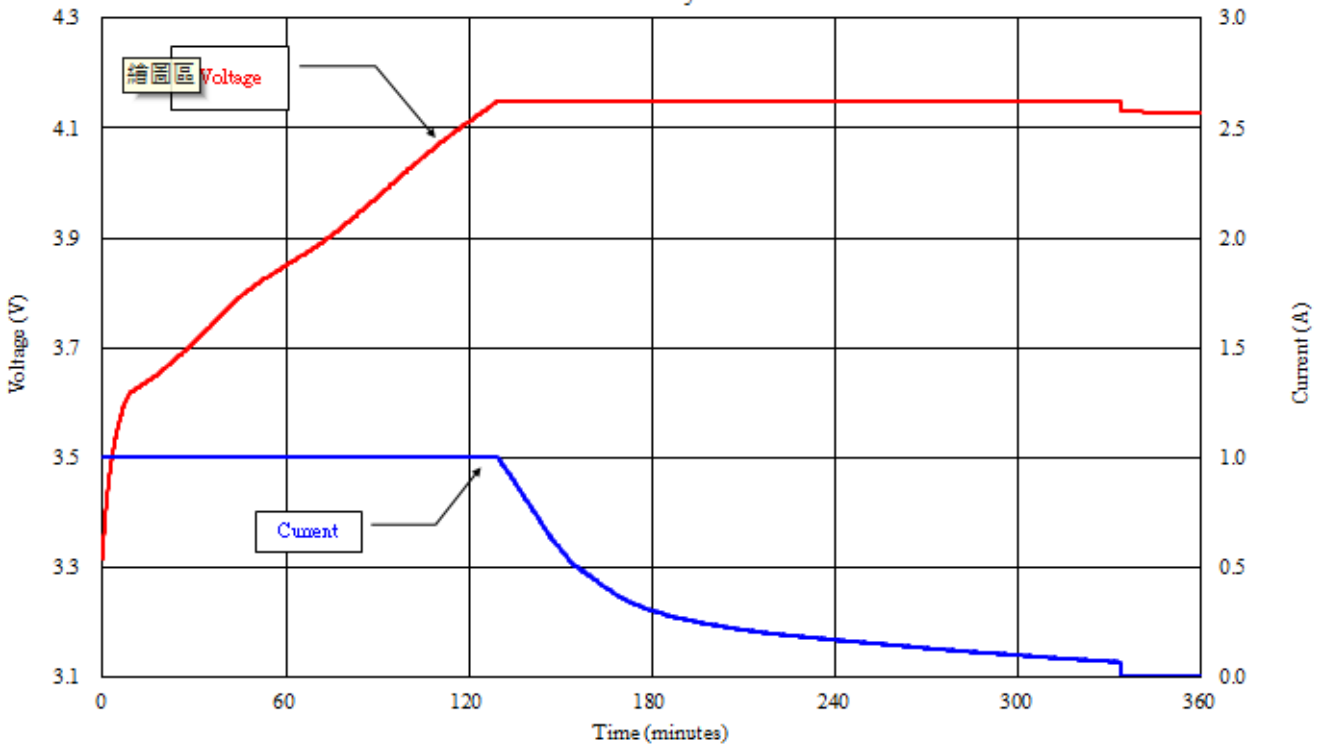
Charge Performance Curve

Charging condition	4.15V/0.064A,0.064A end
Charging time	337.3min
Charging capacity	3.029Ah

充電設定4.15V 1A 64mA截止

NCR18650BF 1S1P HI0101SN05
Battery Voltage and Charging Current Curve
of LI-ION Battery Pack

Date of test:2024/2/6
10:28AM



1S1P HI0101SN05 Battery Pack

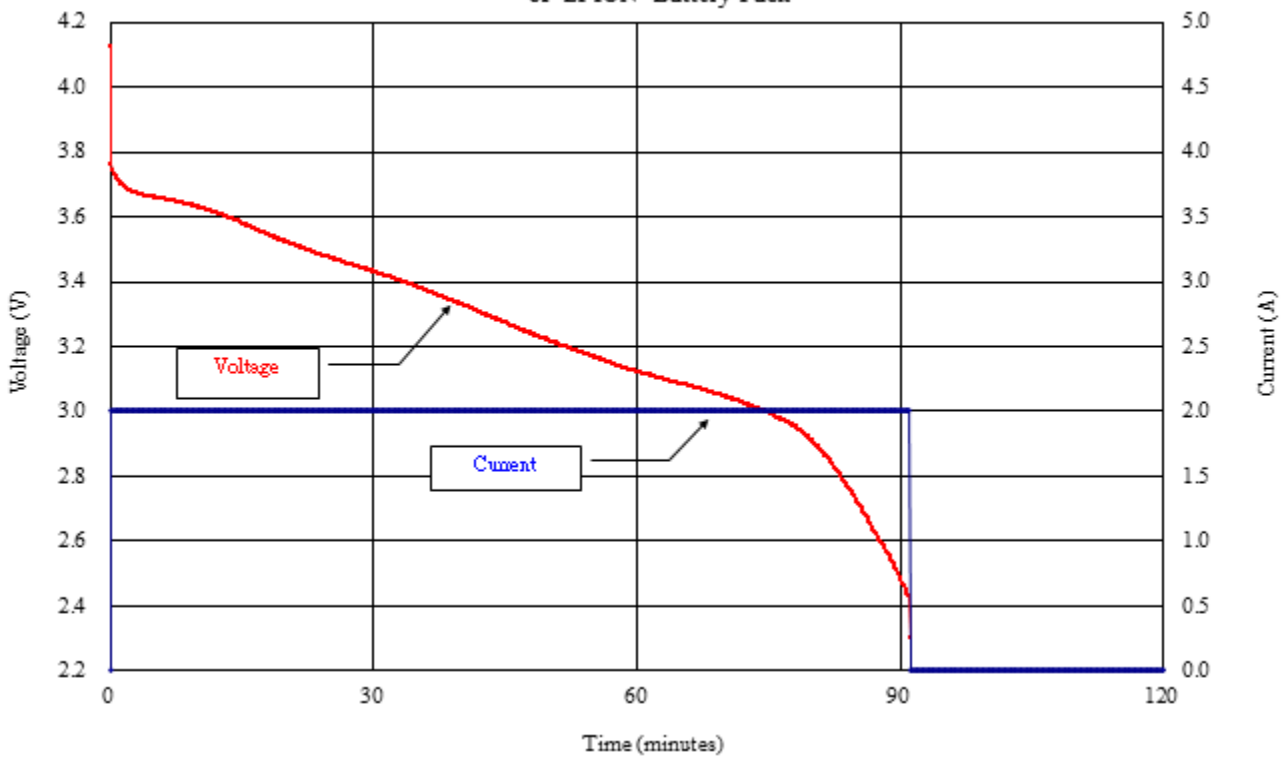
Discharge Performance Curve

Discharging condition	2A / UVP
Discharging time	91min
Discharging capacity	3.028Ah

充電設定4.15V 1A 64mA截止
2A放電至BMS CUT OFF

NCR18650BF 1S1P HI0101SN05
Battery Voltage and Discharge Current Curve
of LI-ION Battery Pack

Date of test:2024/2/5
22:15PM



1S1P HI0101SN05 Battery Pack

Mechanical

Drawing



Connector:

Steel contact plate



Label:



Serial Number:

Serial Number	Definition	Remark
1524-0316	WW: production week	56 x 22mm / 0.5R * 4
WWYY-XXXX	YY: production year	
	XXXX: serial number	

1S1P HI0101SN05 Battery Pack

Photos

(*illustration similar)



Packaging

Battery pack in plastic bag



Accessories

Item	Part number	Remark
Charger	TBD	On request

1S1P HI0101SN05 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 Technology GmbH

Inselkammerstrasse 10
D-82008 Unterhaching

Support:

+49 (0) 89 / 614 503 10

+49 (0) 89 / 614 503 50

Mail us:

sales@hy-line.de

HY-LINE AG

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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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