



Datasheet

11/2024



*illustration similar

1S1P HI0101SN07 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 HI0101SN07 Battery Pack

Specifications

| Item | Descriptions | Specifications | Remark |
|------|------------------------------------|---|---|
| 1 | Model Number | HI0101SN07 | |
| 2 | Cell | Panasonic NCR18650BF | |
| 3 | Configuration | 1S1P | |
| 4 | Nominal Voltage | 3.6V | 3.6V*1S |
| 5 | Nominal 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-11A) | (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 ±0.50A (5) 10.0 ±4.0A (6) typ. 300 ~ max. 360μs (7) <150mΩ |
| 15 | Connection type and pin definition | Connector: JST PHR-3 Terminal: JST SPH-002T-P0.5S Cable length of output: 100mm ± 10mm Pin 1: P+ (Red) with UL1007, 26AWG Pin 2: NTC (Brown) with UL1007, 26AWG Pin 3: P- (Black) with UL1007, 26AWG | |

1S1P HI0101SN07 Battery Pack

Specifications

| | | | |
|----|------------------------------|---|--|
| 16 | Mating Connector (reference) | Type 1: Through-hole type shrouded header: 1.1 Top entry type: B3B-PH-K-S 1.2 Side entry type: S3B-PH-K-S Type 2: Through-hole type shrouded header (Low insertion force type) 2.1 Top entry type: B3B-PH-KL 2.1 Side entry type: S3B-PH-KL Type 3: SMT type shrouded header 3.1 Top entry type: B3B-PH-SM4-TB 3.2 Side entry type: S3B-PH-SM4-TB | |
| 17 | Enclosure | Heat shrink | |
| 18 | Weight (g) | 48g ±10g | |
| 19 | Dimension(mm) | Length: 67.8mm ±0.5mm Diameter: 18.8 mm max. | |
| 20 | IP standard | IP20 | |
| 21 | 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 6060-1-2 :215+A1 :2021 CE and UKCA UL2054 | UN Transport Test Safety Safety UK EMC EMC UK DoC |

1S1P HI0101SN07 Battery Pack

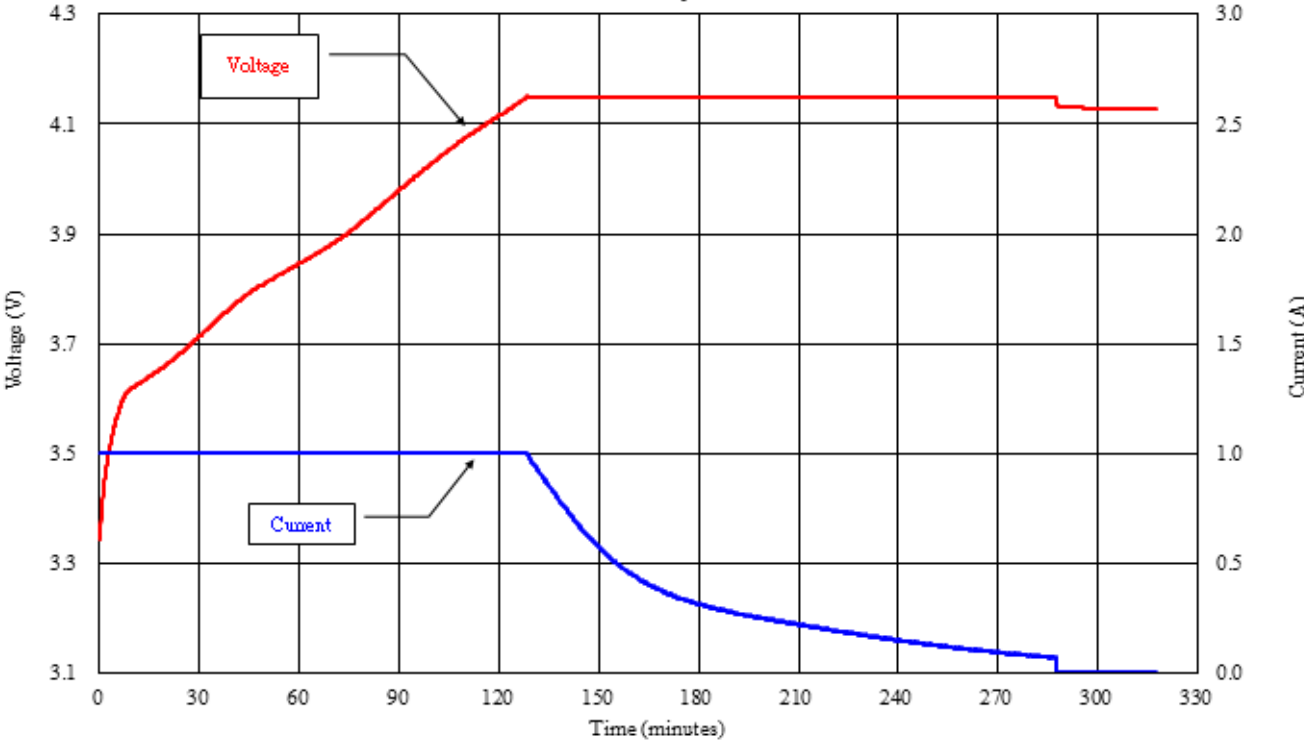
Charge Performance Curve

| | |
|--------------------|-----------------------|
| Charging condition | 4.15V/ 1A, 0.064A end |
| Charging time | 287.4min |
| Charging capacity | 2.928Ah |

充電設定4.15V 1A 64mA截止

NCR18650BF 1S1P HI0101SN07
Battery Voltage and Charging Current Curve
of LI-ION Battery Pack

Date of test: 2024/2/6
19:14PM



1S1P HI0101SN07 Battery Pack

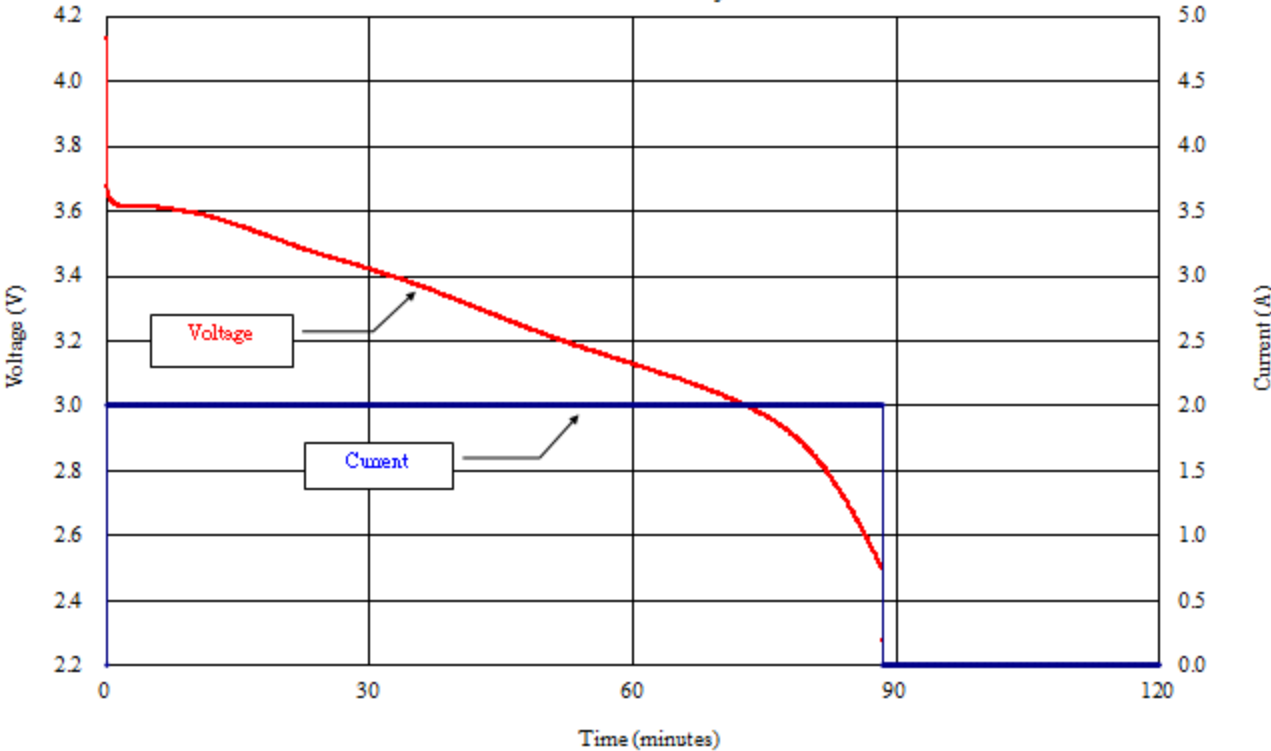
Discharge Performance Curve

| | |
|-----------------------|----------|
| Discharging condition | 2A / UVP |
| Discharging time | 88.4min |
| Discharging capacity | 2.994Ah |

充電設定4.15V 1A 64mA截止
2A放電至BMS CUT OFF

NCR18650BF 1S1P HI0101SN07
Battery Voltage and Discharge Current Curve
of LI-ION Battery Pack

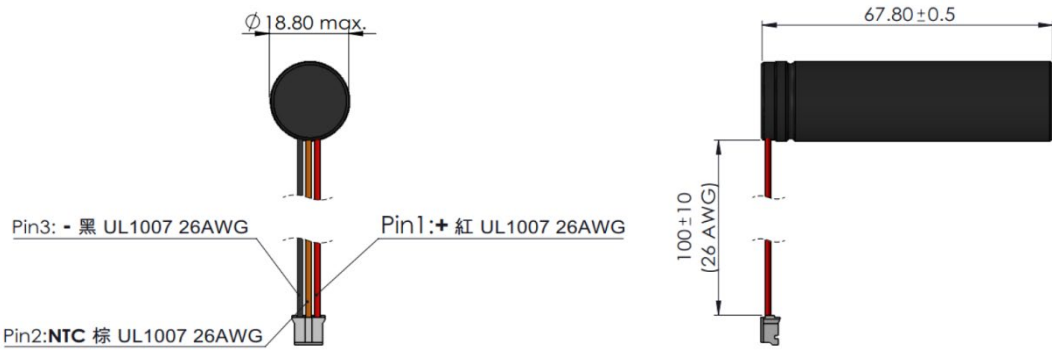
Date of test:2024/2/6
17:06PM



1S1P HI0101SN07 Battery Pack

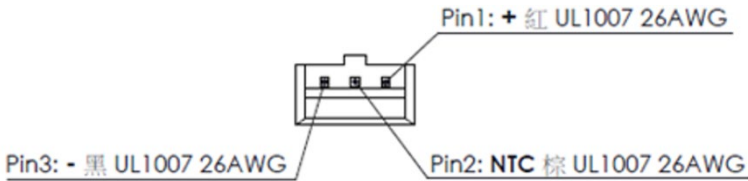
Mechanical

Drawing



Connector

Connector: JST PHR-3
Terminal: JST SPH-002T-P0.5S




Label

Part N°: HI0101SN07
 Rechargeable Lithium-ion Battery
 1S1P Panasonic NCR18650BF 1INR19/66
 Nominal Voltage: 3.6Vdc / Rated Capacity: 11.52Wh/3.2Ah
 Charge Voltage: 4.15Vdc / Max Charge Current: 1A / + Red Wire,
 TH Brown Wire, - Black Wire.










CAUTION:
 Don't crush or dismantle! Don't heat or incinerate. Don't short-circuit!
 Don't immerse the battery in any liquid to avoid vent or rupture!
 Dispose of used battery promptly and keep away from children.
 Observe charging instructions.
 Don't charge below 0°C. Discharge temperature range: -20°C to +60°C

HY-LINE AG
 Hochstr. 355
 CH-8200 Schaffhausen
 Switzerland

W32/24



3224-0001

| Serial Number: | Serial Number | Definition | Remark |
|----------------|---------------|--|----------------------|
| | 5123-0385 | WW: production week | 56 x 22mm / 0.5R * 4 |
| | WWYY-XXXX | YY: production year XXXX: serial number | |

1S1P HI0101SN07 Battery Pack

Photos

(*illustration similar)



Packaging

Battery pack in plastic bag



Accessories

| Item | Part number | Remark |
|---------|-------------|------------|
| Charger | TBD | On request |
| | | |
| | | |

1S1P HI0101SN07 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

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_HI0101SN07_1S1P | November 2024
Subject to changes without notice | All Information without guarantee
© 2024, HY-LINE Group

hy-line-group.com

