



\*illustration similar

# 7S9P HI0709PS02 Battery Pack

- 7S9P Li-Ion Battery pack
- 25.2V nominal voltage
- 30.15Ah nominal capacity, 756Wh (UN38.3)
- Panasonic premium quality cell NCR18650GA
- Plastic housing
- SM-Bus communication

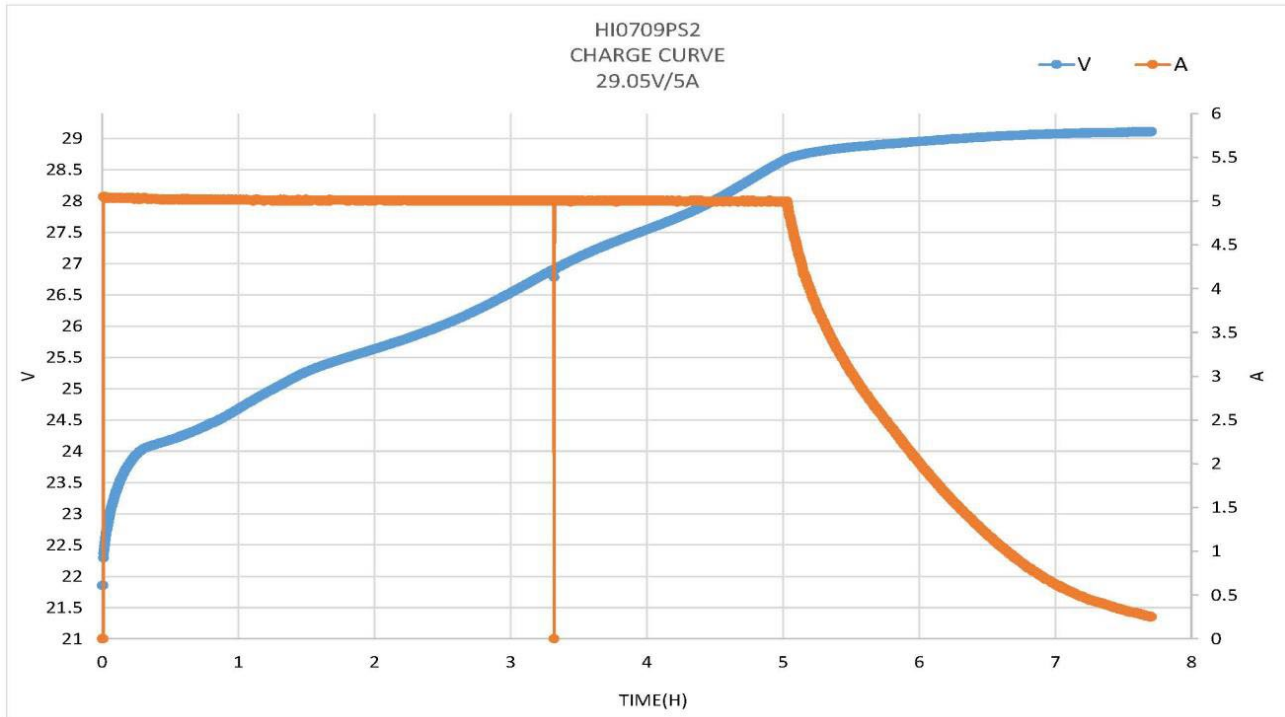
## 7S9P HI0709PS02 Battery Pack

# Specifications

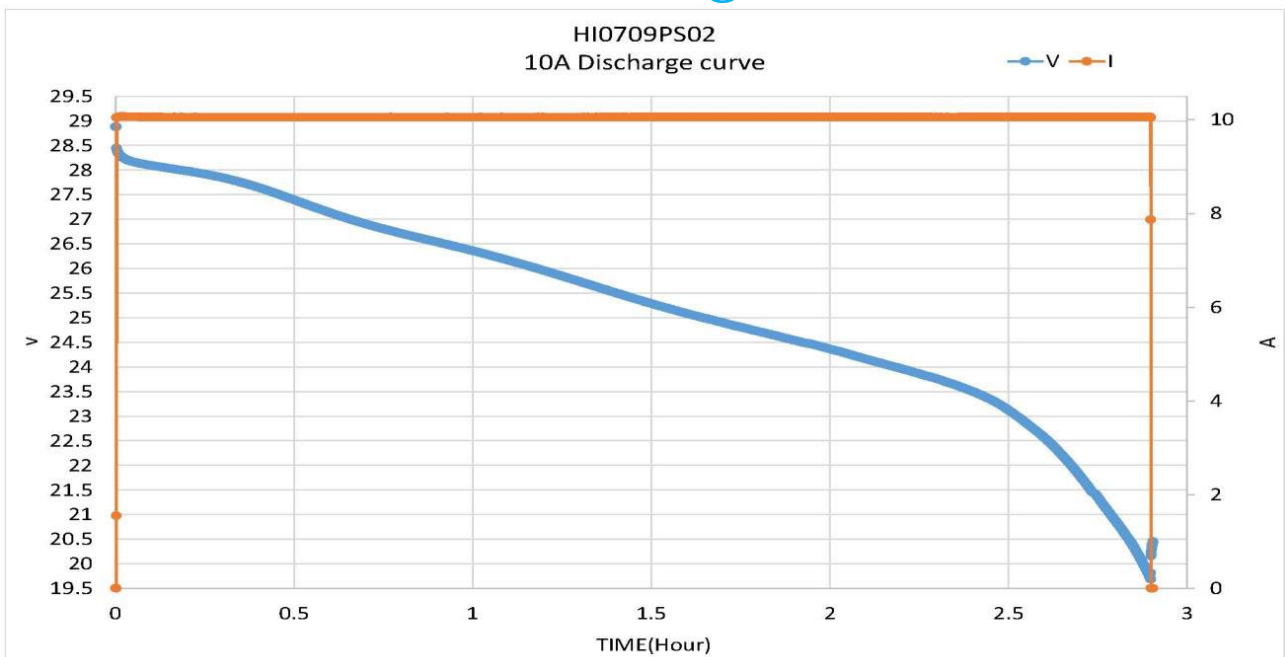
Item	Descriptions	Specifications		Remark
1	Model Number	HI0709PS02		
2	Cell	Panasonic NCR18650GA		
3	Configuration	7S9P		
4	Nominal Voltage	25.2V		3.6V*7S
5	Nominal Capacity	30.15Ah		3.35Ah*9P
6	Watt-Hour (UN38.3)	756Wh		Calculated: 759.8Wh (25.2V*30.15Ah)
7	Internal Resistance	<100mΩ		Measure from output 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	-20°C ... +50°C -20°C ... +40°C	Percentage of recoverable capacity 80%
10	Humidity	30 ... 80%		
11	Charging Voltage (Maximum)	29.4V		
12	Charge Current	<10.0A		
13	Discharge Current (Continuous)	<25.0A		
14	BMS Design (7S-44A)	(1) Over charge voltage threshold (2) Over discharge voltage threshold (3) Over charge current protection (4) Over discharge current protection (5) Short circuit protection (6) IR		(1) 4250 ±25mV/cell (2) 2800 ±25mV/cell (3) 16 ±2A (fuse) (4) 30 ±2A (fuse), (5) 200 ±2A (6) <100mΩ
15	SM-Bus	SM-Bus		SBS 1.1
16	Connection type	UT-4324, female		Pin1: GND Pin2: SMBus CLK Pin3: SMBus DATA Pin4: KEYON_B Pin5: KEYON_A Pin6: Reserve Pin7: Pack + Pin8: Pack + Pin9: Pack - Pin10: Pack -
17	Enclosure	Plastic housing		Black Sabic 6600, black
18	Weight (g)	4800 ±50		
19	Dimension (mm)	L269.9 * W94.9 * H159.9		
20	IP standard	IP20		
21	Certifications	UN38.3, EN62133, EMC 60601		In progress

## 7S9P HI0709PS02 Battery Pack

### Performance Charge Curve



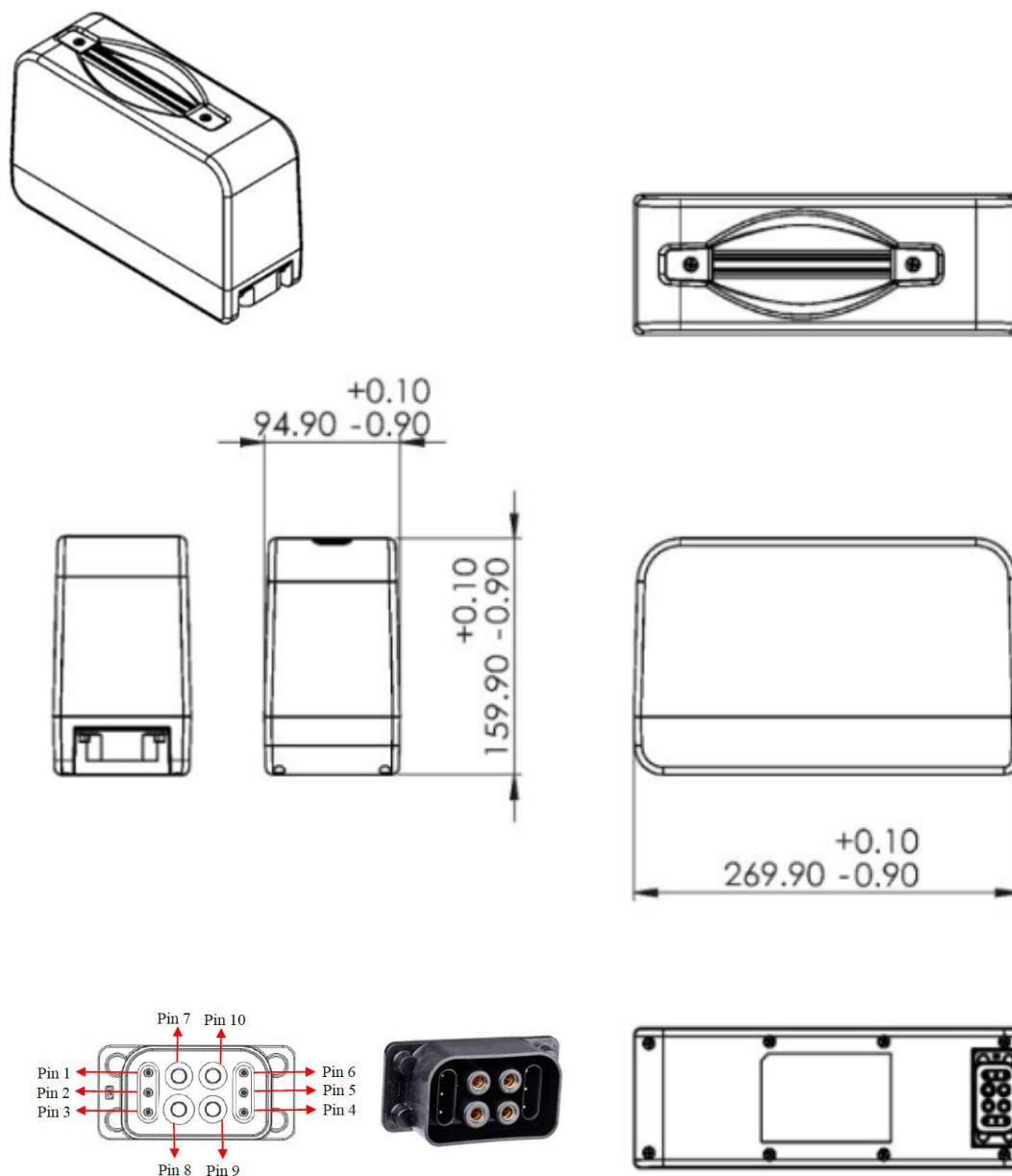
### Performance Discharge Curve



## 7S9P HI0709PS02 Battery Pack

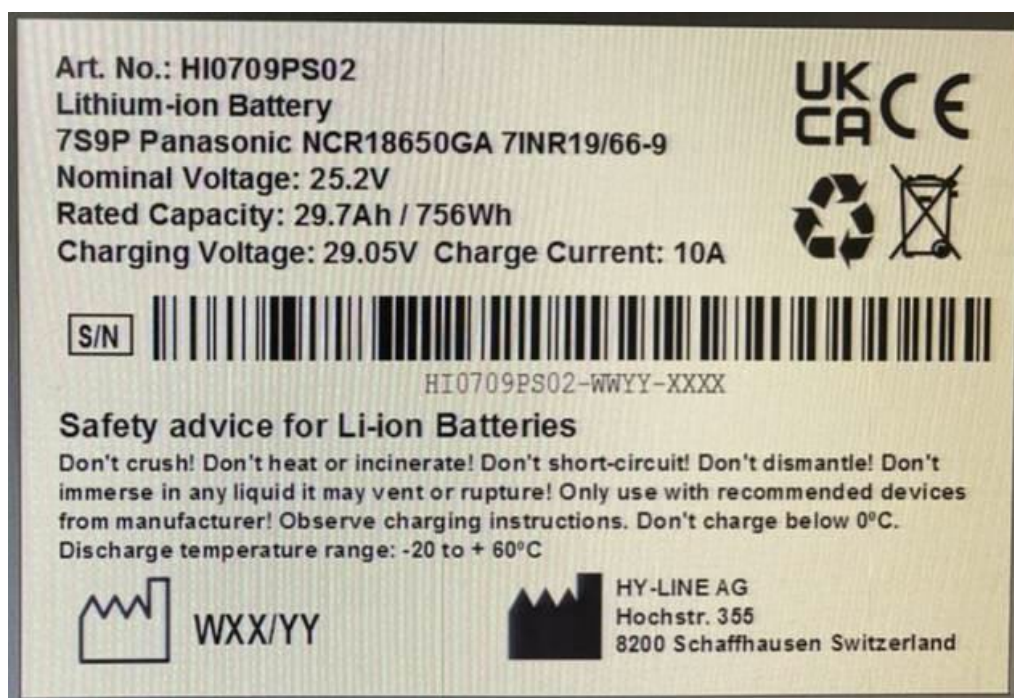
# Mechanical

### Drawing



## 7S9P HI0709PS02 Battery Pack

### Label



### Serial number definition

HI0709PS02-WWYY-XXXX	Model name: HI0709PS02 Production week: WW Production year: YY Serial number: XXXX	Example: HI0709PS02-2122-0001
WXX/YY	Lot delivery week: WXX Lot delivery year: YY	Example: 21/22

## 7S9P HI0709PS02 Battery Pack


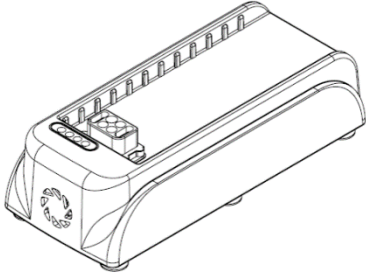
### Photos

(\*illustration similar)



## 7S9P HI0709PS02 Battery Pack

### Accessories

Item	Part number	Remark
Charger	ML07-50MT	<ul style="list-style-type: none"> <li>Input range: 100 – 240VAC, 50/60Hz</li> <li>Input max. power 170W <math>\pm</math>10%</li> <li>Output voltage 29.05VDC <math>\pm</math>0.2VDC constant</li> <li>Fast charge-5A <math>\pm</math>10% (battery voltage &gt; 21V <math>\pm</math>1V)</li> <li>Pre-charge-1000mA <math>\pm</math>100mA (battery voltage &lt; 21V <math>\pm</math>1V)</li> <li>Output connector: UT-4323</li> <li>AC power cord: EU type</li> </ul> 
Charger	SP07-12MET	<ul style="list-style-type: none"> <li>Input range: 100 – 240VAC, 50/60Hz</li> <li>Input max. power 408W <math>\pm</math>10%</li> <li>Output voltage 29.06VDC <math>\pm</math>0.2VDC constant</li> <li>Fast charge-13A <math>\pm</math>1A (battery voltage &gt; 21V <math>\pm</math>1V)</li> <li>Pre-charge-1600mA <math>\pm</math>400mA</li> <li>Output connector: UT-4323</li> </ul> 
Male connector	12D5012	<ul style="list-style-type: none"> <li>Male connector with cable: UT-4323T, Length with connector 1400 <math>\pm</math>30mm</li> </ul>



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# Contact

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### 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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