ENERGY SYSTEMS

Datasheet
01/21



*illustration similar

7S9P H2B491 Battery Pack

- 7S9P Li-Ion Battery pack
- 25.2V nominal voltage
- 24.5Ah nominal capacity, 617.4Wh (UN38.3)
- Panasonic premium quality cell NCR18650PF
- Plastic housing
- SM-Bus communication

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7S9P H2B491 Battery Pack

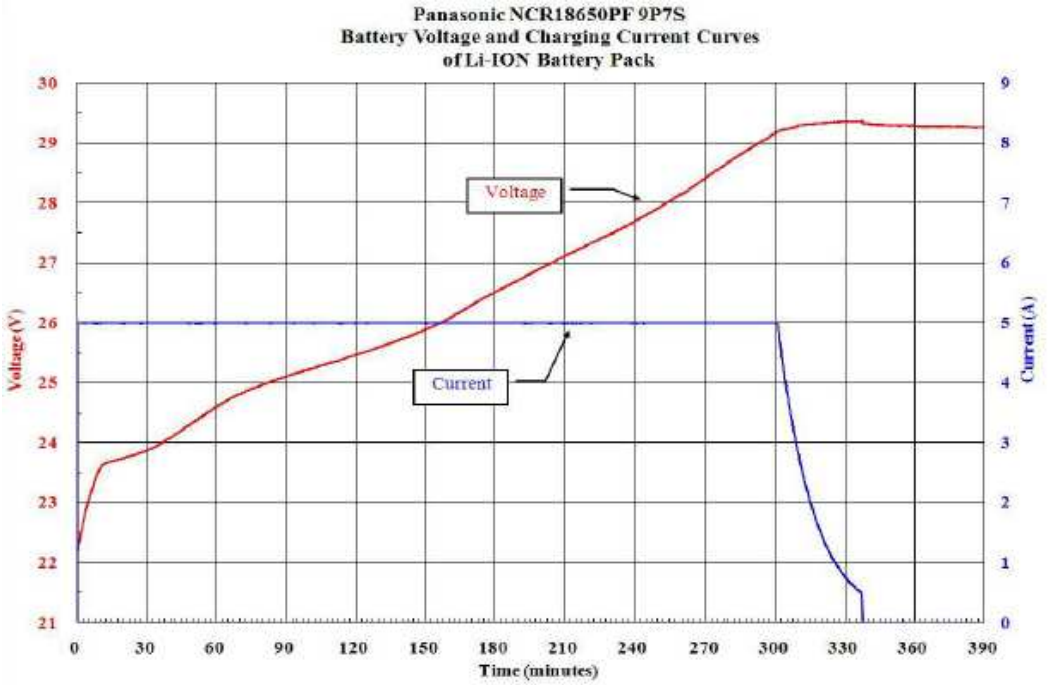
Specifications

Item	Descriptions	Specifications		Remark	
1	Model Number	H2B491			
2	Cell	Panasonic NCR18650PF			
3	Configuration	7S9P			
4	Nominal Voltage	25.2V		3.6V*7S	
5	Nominal Capacity	24.5Ah		2.72Ah*9P	
6	Watt-Hour (UN38.3)	617.4Wh		Calculated: 612.4Wh (25.2V*24.3Ah)	
7	Internal Resistance	<40mΩ		Measure from output terminal of battery pack	
8	Recommended operation Temperature	Standard Charge Standard Discharge	10°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)	29.4V			
12	Charge Current	<12.0A			
13	Discharge Current	<40.0A			
14	BMS Design	(1) Over charge voltage threshold (2) Under 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) 16A (fuse) (4) 60A (fuse), (5) yes (6) <40mΩ	
15	SM-Bus	SBS 1.1			
16	Connection type	UT-4324, female		Pin1: GND Pin2: CLK Pin3: DATA Pin4: Reserve Pin5: KEYON_A	Pin6: KEYON_B 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 5th Rev. HENV026/2015 IEC 62133 2nd edition			

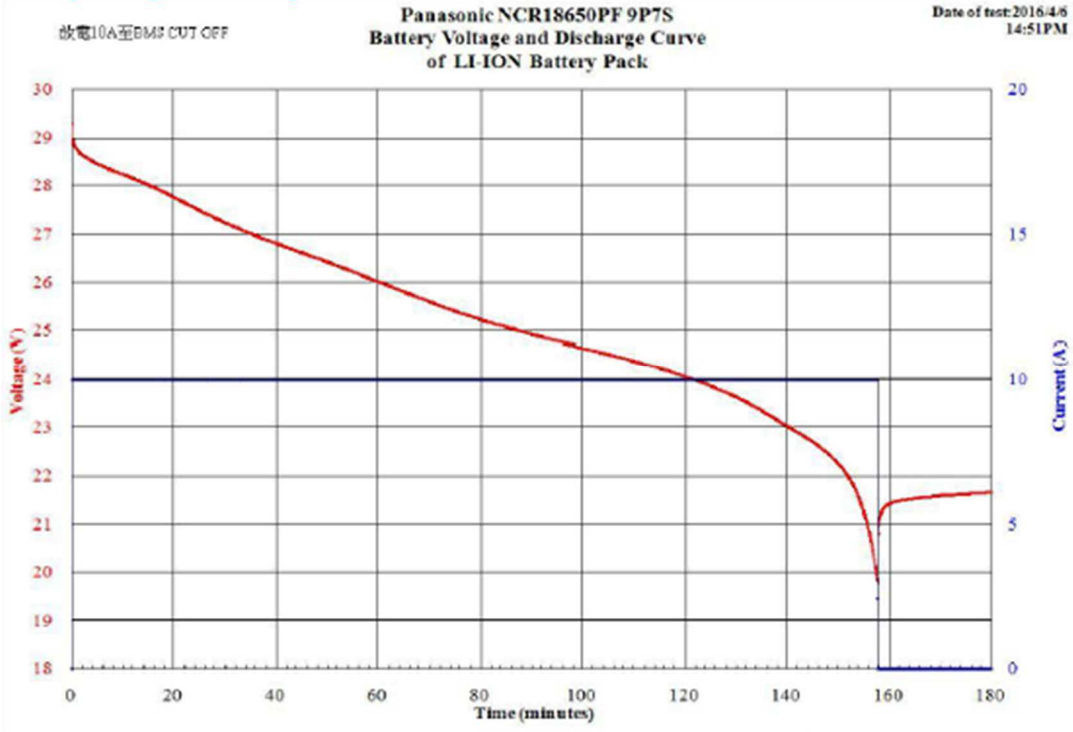
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Performance Curves

Charge: Battery Voltage / Charge Current



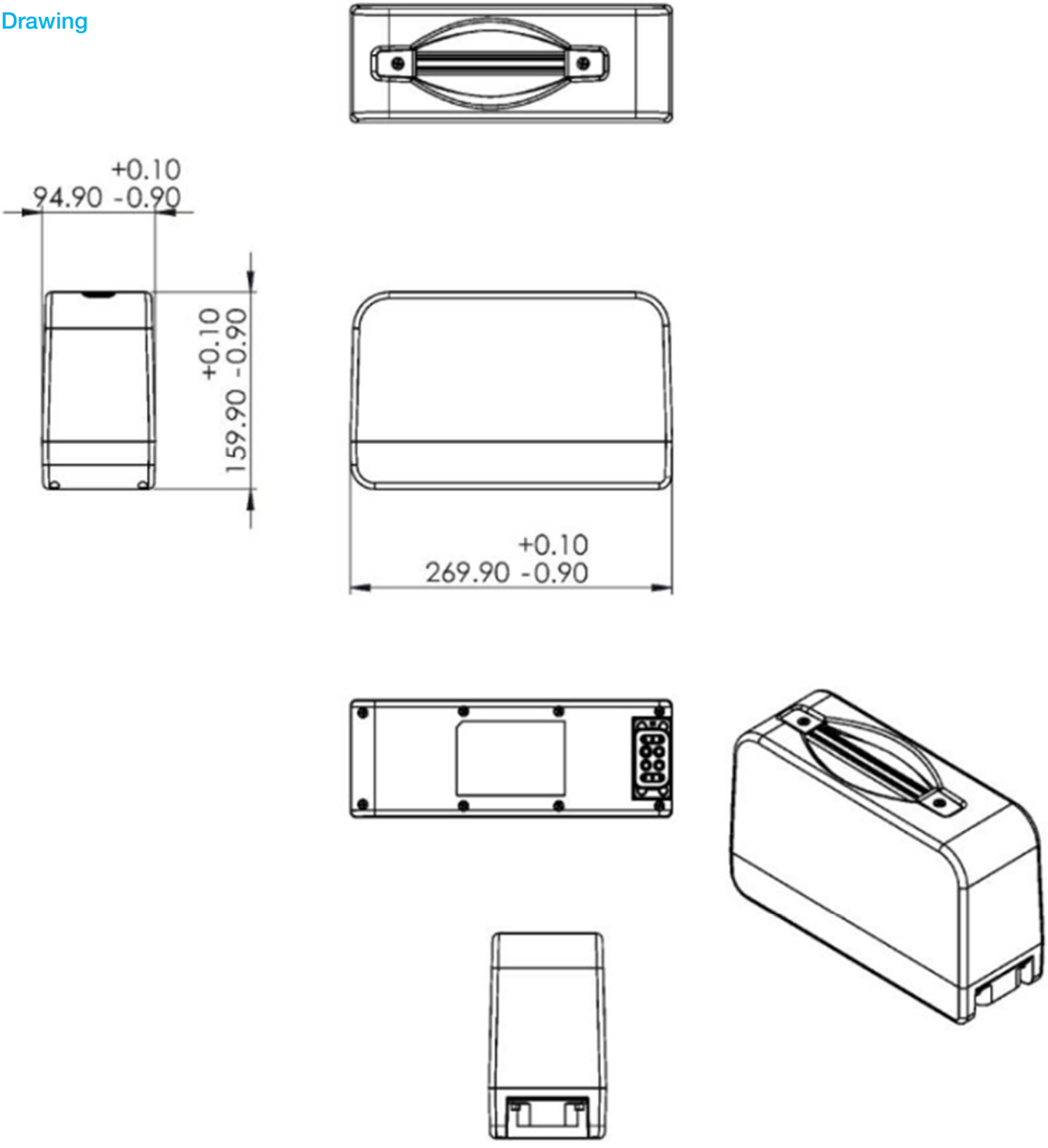
Charge: Battery Voltage / Discharge Current



7S9P H2B491 Battery Pack

Mechanical

Drawing



7S9P H2B491 Battery Pack

Photos

(*illustration similar)

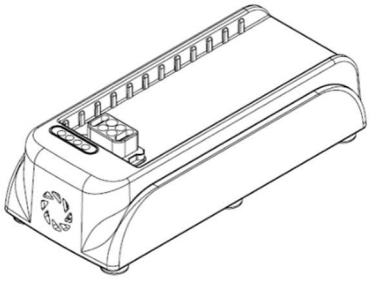






7S9P H2B491 Battery Pack

Accessories

Item	Part number	Remark
Charger	ML07-50MT	■ Input range: 100 – 240VAC, 50/60Hz ■ Input max. power 170W ±10% ■ Output voltage 29.05VDC ±0.2VDC constant ■ Fast charge-5A ±10% (battery voltage > 21V ±1V) ■ Pre-charge-1000mA ±100mA (battery voltage < 21V ±1V) ■ Output connector: UT-4323 ■ AC power cord: EU type 
Charger	SP07-12MET	■ Input range: 100 – 240VAC, 50/60Hz ■ Input max. power 408W ±10% ■ Output voltage 29.06VDC ±0.2VDC constant ■ Fast charge-13A ±1A (battery voltage > 21V ±1V) ■ Pre-charge-1600mA ±400mA ■ Output connector: UT-4323 
Male connector	12D5012	■ Male connector with cable: UT-4323T, Length with connector 1400 ±30mm

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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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