

Testing Date	29-Mar-17
Ambient Temperature	22 ± 2°C
Document No.	KST-HL13S4P-30Q-01

Li-ion 48V 12Ah Battery Pack



Battery Pack Specifications

Cell Model	Samsung INR18650-30Q
Configuration	4P13S
Nominal Capacity	12Ah
Minimum Capacity	11.6Ah
Nominal Voltage	46.8V
Nominal Energy Content	561.6Wh
Charge Voltage	54.6V
Standard Charge Current	2A
Max. Charge Current	4A
Max. Continuous Discharge Current	20A
Peak Discharge Current	40A
Discharge Cut-off Voltage	35.75V
Gross Weight (Approx.)	3.95KG
Dimensions	90×111×367mm
Charge Connector	Female DC5521
Discharge Connector	30A Anderson
Operating Temperature	Charge: 0°C to 45°C Discharge: -20°C to 60°C

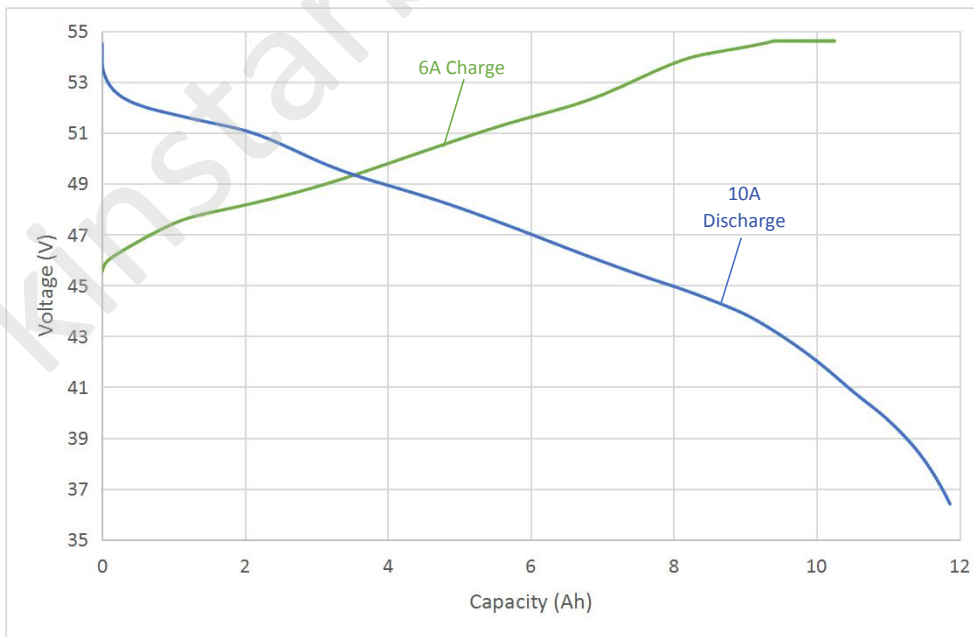
BMS Specifications

Number Of Cluster	13S
Charge And Discharge Port	Different
Max. Allowed Charge Current	4A
Max. Continuous Discharge Current	20A
Overcharge Protection Voltage	55.25 ± 0.25V
Overdischarge Protection Voltage	35.75 ± 0.62V
Overload Protection Current	55 ± 10A
Overheat Protection Temperature	65°C
External Shortcircuit Protection	Available

Test Conditions and Results

Test	Conditions	Test Result
10A Discharge To	36.4V	11.866Ah

Typical discharge profiles (10A - 0.86C rate)



Preliminary specifications, performance may vary depending on use conditions and application. KinStar makes no warranty explicit or implied with this test report. Contents subject to change without notice.