

ST 3.6V 3AH-P Data Sheet

SoluThium
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NOMINAL VOLTAGE / CAPACITY / ENERGY

3.6 V / 3.2Ah / 11.52Wh

TYPE & CHEMISTRY

Lithium Battery / Lithium-Ion (NCA)

DIMENSIONS

ø18.5 x 69 mm



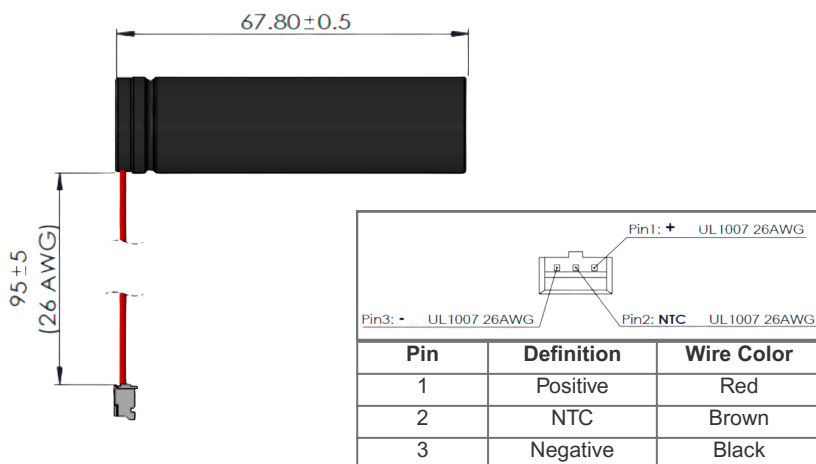
BATTERY SPECIFICATIONS

Model No.	ST 3.6V 3AH-P		
Chemistry	LiNiCoAlO ₂	Pack Configuration	1S1P
Nominal Voltage	3.6V	Charge/Discharge Connector	JST: PHR-3
Capacity	3.2Ah	Pairing Charger	N/A
Energy	11.52Wh	Case	Heat Shrink
Weight	49g ± 3g	Communication	N/A
Certifications	UN38.3 / PSE / IEC62133-2 / IEC60601-1-2 / UL2054	Indicators	N/A
		Charging Current	0.8A (max. 1.625A)
Nominal Dimensions	ø18.5 x 69 mm	Cont. Discharge Current	2.5A (max. 3A, 9ms)

BMS SPECIFICATIONS

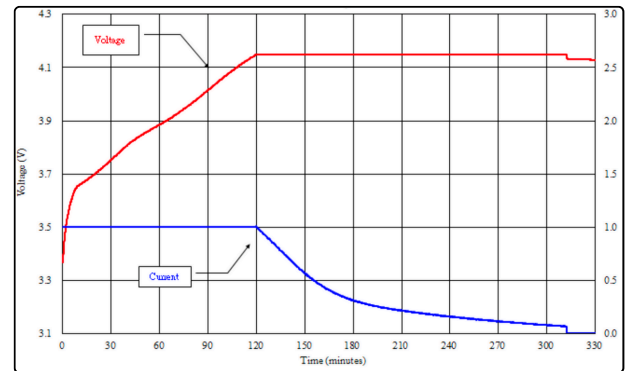
Over Charge Voltage Threshold	4.325V ± 0.025V/cell
Over Charge Voltage Release	4.075V ± 0.025V/cell
Over Discharge Voltage Threshold	2.5V ± 0.050V/cell
Over Discharge Voltage Release	2.9V ± 0.050V/cell
Over Discharge Current Protection	2.77A ± 0.277A
Over Discharge Current Release	9ms
Short Circuit Protection	9.26A ± 3.7A
Balance Function	N/A

MECHANICAL DESIGN



CHARGING CURVES

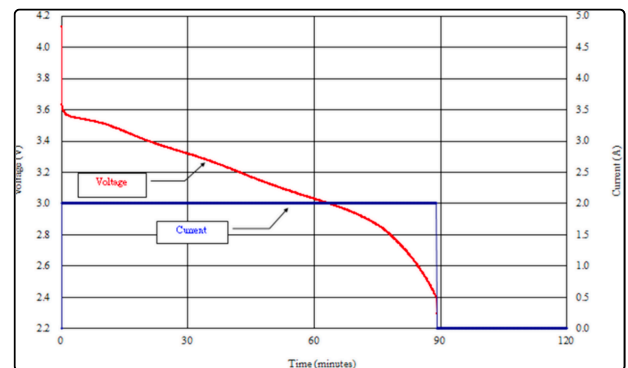
Charging profile: CC/CV mode, 4.15V charge voltage, 1A constant current, charge cutoff at 64mA



Charge Current: 1A
Charge Time: 5.2 hrs

DISCHARGING CURVES

Constant current discharge at 2A until protection cutoff triggered by BMS



Discharge Current: 2A (0.6C)
Discharge Time: 1.5 hrs