

ST 3.6V 3AH-P3 Data Sheet

NOMINAL VOLTAGE / CAPACITY / ENERGY

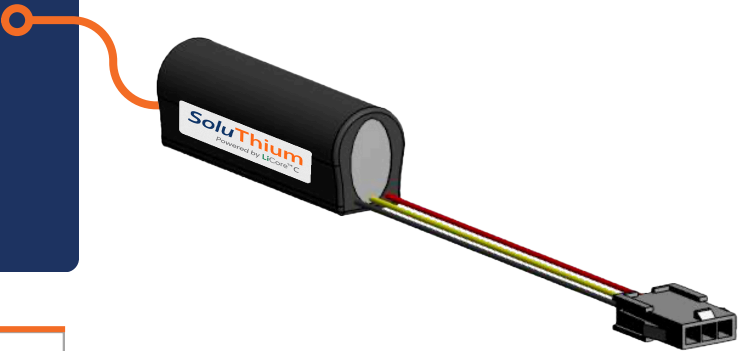
3.6 V / 2.95Ah / 10.62Wh

TYPE & CHEMISTRY

Lithium Battery / Lithium-Ion (NCA)

DIMENSIONS

2.62" x 0.89" x 0.63"



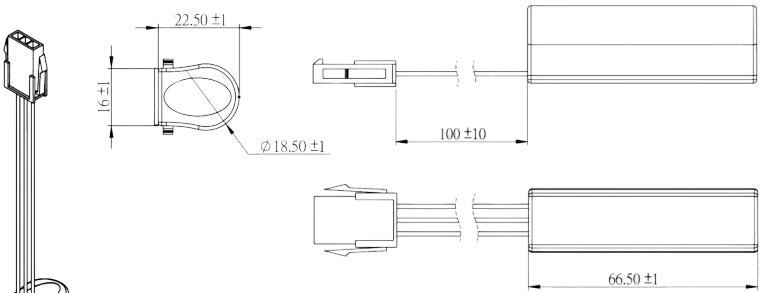
BATTERY SPECIFICATIONS

Model No.	ST 3.6V 3AH-P3		
Chemistry	LiNiCoAlO ₂	Pack Configuration	1S1P
Nominal Voltage	3.6V	Charge/Discharge Connector	P3-I42001K6A
Capacity	2.95Ah	Pairing Charger	N/A
Energy	10.62Wh	Case	Heat Shrink
Weight	58.73g ± 5%	Communication	I2C not external
Nominal Dimensions	2.62" x 0.89" x 0.63" (66.5 x 22.5 x 16mm)	Indicators	N/A
		Charging Current	1.5A (max. 2.98A)
Certifications	UN38.3 IEC62133-2	Cont. Discharge Current	8A (max. 10A, 2s)

BMS SPECIFICATIONS

Over Charge Voltage Threshold	4.2V ± 0.025V/cell
Over Charge Voltage Release	4.0V ± 0.050V/cell
Over Discharge Voltage Threshold	2.8V ± 0.050V/cell
Over Discharge Voltage Release	3.3V ± 0.050V/cell
Over Discharge Current Protection	10A ± 1A
Over Discharge Current Release	0A / 8s
Short Circuit Protection	50A ± 1A
Balance Function	N/A

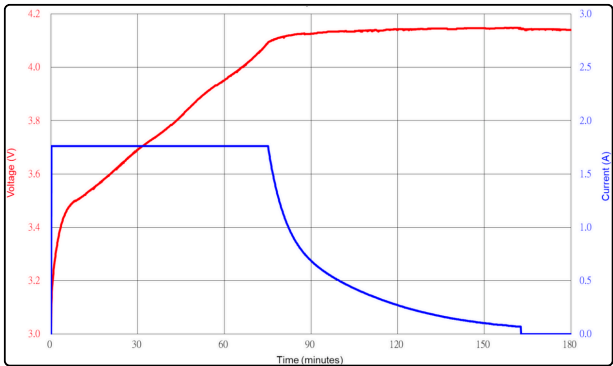
MECHANICAL DESIGN



Pin	Definition	Wire Color
1	P+	Red
2	TH	Brown
3	P-	Black

CHARGING CURVES

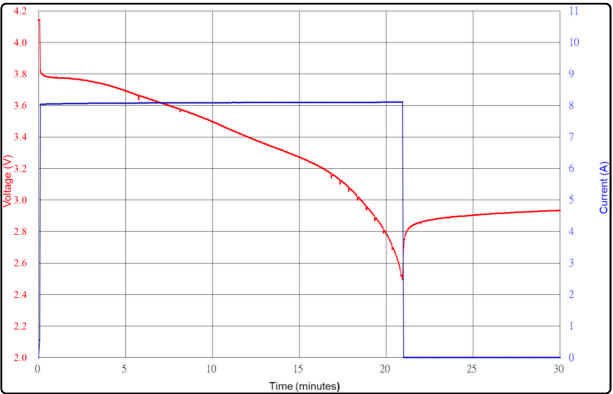
Charging profile: CC/CV mode, 4.15V charge voltage, 1.75A constant current, charge cutoff at 0.06A



Charge Current: 1.75A
Charge Time: 2.6 hrs

DISCHARGING CURVES

Constant current discharge at 8A until protection cutoff triggered by BMS



Discharge Current: 8A (2.7C)
Discharge Time: 0.35 hr
Temperature: 24.7°C increases to 50.8°C (26.1°C rise)