ST 47.2V 20AH-UT1 Data Sheet



NOMINAL VOLTAGE / CAPACITY / ENERGY

47.2V / 19.6Ah / 925Wh

TYPE & CHEMISTRY

Lithium Battery / Lithium-Ion (NCA)

DIMENSIONS

10.5" (L) x 6.15" (W) x 3.35" (H)

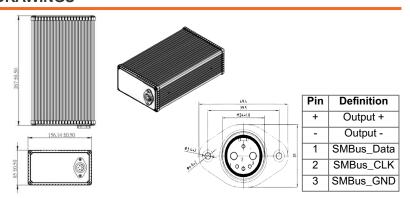
BATTERY SPECIFICATIONS

Model No.	ST	47.2V 20AH-UT1	1	
Chemistry	LiNiCoAlO ₂		Pack Configuration	13S4P
Nominal Voltage	47.2 V		Charge/Discharge Connector	UT-SD259F5-6AP
Capacity	19.6 Ah		Pairing Charger	Available
Energy	925Wh		Case	Aluminum
Weight	5.65kg ± 5%		Communication	SMBus
Nominal Dimensions	L	10.5" (267.4mm)	Charging Current	7A (max. 10A)
	W	6.15" (156.1mm)	Cont. Discharge Current	30A (max. 40A, 10s)
	Н	3.35" (85mm)		
Certifications	UN38.3 IEC 62133-2 PSE		Indicators	N/A

BMS SPECIFICATIONS

Over Charge Voltage Threshold	4.25V ± 0.025V/cell	
Over Charge Voltage Release	4.1V ± 0.025V/cell	
Over Discharge Voltage Threshold	2.8V ± 0.025V/cell	
Over Discharge Voltage Release	3.3V ± 0.025V/cell	
Over Discharge Current Protection	40A	
Over Discharge Current Release	10s	
Short Circuit Protection	200A ± 2A	
Balance Function	Yes	
BMS Gauge	Read with SMBus: Voltage / Current / Temperature / Full Charge Capacity / Cycle Count	

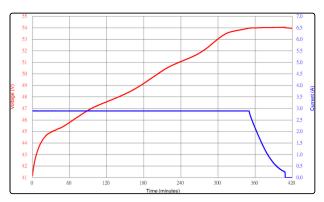
DRAWINGS





CHARGING CURVES

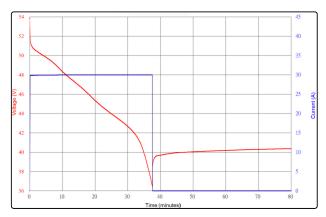
Charging profile: CC/CV mode, 53.95V charge voltage, 3A constant current, charge cutoff at 0.3A



Charge Current: 3A Charge Time: 6.8 hrs

DISCHARGING CURVES

Constant current discharge at 30A until protection cutoff triggered by ${\rm BMS}$



Discharge Current: 30A (1.5C)
Discharge Time: 0.6 hr
Temperature: 24.8°C increases to 56.4°C (31.6°C rise)

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