

OUTREACH POWER

AT12100-D

AQUATERRA DUAL LITHIUM BATTERY



Technical Data

Energy storage	1.28kWh	
Nominal capacity	100 Ah	
Nominal voltage	12.8 V	
Voltage range	8 - 14.6 V	
Battery Type	LiFePO4	
Charge Time	Standard, 0.2C	6.0 h
	Quick, 1 C	1.5 h
Charge Method CC-CV	Standard, 0.2C	20 A / 14.6 V
	Quick, 1C	100 A / 14.6 V
Maximum Discharge Current	Cranking	800 A, 2 S
	Continuous	100 A
Cycle life 0.5C / 23 °C	2000 cycles	
Operating Temperature Range	Charge	0°C to +45 °C
	Discharge	-20°C to +60 °C
	Storage	0°C to +35 °C
Water Proof	IP67	
Flammability Rating	UL94-V0	



Dimension and Aspect

Length	279 mm
Width	175 mm
Height	189 mm
Weight	11 kg
Poles Number	4
Poles Screw	M6

BMS Protecting Function

Balance	Current	40 mA
	Activate Voltage	3.55 V/cell
High Temperature Protection	Protection	85 °C
	Release	60 °C
Over Charge	Protection	15.6 V (3.9 V/cell)
	Release	14.4 V (3.6 V/cell)
Over Discharge	Protection	8.0 V (2.0 V/cell)
	Release	10.8 V (2.7 V/cell)
Short Circuit	Protection	3000 A
	Release	Disconnect the load

Battery Discharge Form

SOC	0.1C urladding	OCV
100 %		13.4 V
90 %	13.19 V	13.3 V
80 %	13.17 V	13.3 V
70 %	13.15 V	13.3 V
60 %	13.05 V	13.2 V
50 %	12.99 V	13.15 V
40 %	12.98 V	13.14 V
30 %	12.94 V	13.1 V
20 %	12.79 V	12.9 V
10 %	12,61 V	12.8 V



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POWER