

OUTREACH POWER

AQUATERRA

AT24100-D

DUAL LITHIUM BATTERY



Technical Data

Energy storage		2.56kWh
Nominal capacity		100 Ah
Nominal voltage		25.6 V
Voltage range		16 - 29.2 V
Battery Type		LiFePO4
Charge Time	Standard, 0.2C	5.5 h
	Quick, 1 C	1.5 h
Charge Method CC-CV	Standard, 0.2C	20 A / 29.2 V
	Quick, 1C	100 A / 29.2 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	-20°C to +35 °C
Water Proof		IP67
Flammability Rating		UL94-V0

Dimension and Aspect

Length	375.6 mm
Width	193.6 mm
Height	226.6 mm
Weight	19.8 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 (MOSFET temp)
	Release	60 °C (MOSFET temp)
Over Charge	Protection	30.8 V (3.85 V/cell)
	Release	30.32V (3.79 V/cell)
Over Discharge	Protection	16.0 V (2.0 V/cell)
	Release	20.0 V (2.5 V/cell)
Short Circuit	Protection	3000 A
	Release	Disconnect the load

Battery Discharge Form

SOC	0.1C urladdning	OCV
100 %		26.80 V
90 %	26.25 V	26.59 V
80 %	26.21 V	26.59 V
70 %	26.13 V	26.59 V
60 %	25.98 V	26.45 V
50 %	25.89 V	26.30 V
40 %	25.86 V	26.28 V
30 %	25.77 V	26.25 V
20 %	25.60 V	26.07 V
10 %	25,27 V	25.77 V

