



Technical Data

Model

VELOCITI-LFP-5145



High Performance & Long Life

Delivers over 2000 cycles at 100% Depth of Discharge (DoD), consistent power with low degradation rate

Environment & Safety Focused

IP67 rated- complete protection against dust and solids, protection from thermal runaway.

Robust & Compact Design

Enclosure: CRCA

Connectors: Anderson SBS75X

Smart Connectivity Options

RS485, CAN, IOT

Battery Management System (BMS)

16S50A intelligent BMS, real-time protection against overcharge, over-discharge, short circuit, temperature spikes, and thermal runaway,

Main Parameter		
Battery Chemistry		LFP
Capacity (Ah)		45
Nominal Voltage (V)		51.2
Operating Voltage (V)		40-58.4
Nominal Energy (kWh)		2.3
Usable Energy (kWh)		2.3
Charge/Discharge Current (A)	Recommended	+22.5/-22.5
	Max.	+22.5/-45
	Peak(25°C)	+22.5/-45
Other Parameter		
Recommended Depth of Discharge		100%
Dimension (L*W*H, mm)		260 x 192 x 369
Weight Approximate(kg)		21
IP Rating of Enclosure		IP67
Operating Temperature		0-55
Recommend Operating Temperature (°C)		Charge: 0-55, Discharge: -10-60
Storage Temperature		At 50% SOC, 25-45°C
Humidity		90% RH
Altitude		<2000 m
Cycle Life		1000
Application		E-2W
Warranty Period		2 years
Energy delivered over lifetime (kWh)		3680

DC Usable Energy test conditions: 100% DOD, 0.5C charge & discharge at 25°C. System usable energy may vary due to system configuration parameters.

Description of the battery

The VELOCITI-LFP-5145I battery is the product engineered for E-2W applications. The system integrates an intelligent Battery Management System (BMS) that provides monitoring of cell voltages, current, and temperature. The BMS also performs passive cell balancing to enhance consistency and maximize service life.

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