



High Performance & Long Life

Delivers over 1000 cycles at 100% Depth of Discharge (DoD), consistent power with low degradation rate

Environment & Safety Focused

IP65 rated- completely dust-tight and protects against low-pressure water jets from any direction & contains PCM for thermal runaway protection

Robust & Compact Design

Enclosure: CRCA

Connector: SB50

Battery Management System (BMS)

13S40A hardware BMS protects against overcharge, over-discharge, short circuit,

Technical Data

Model		VELOCITI-NMC-4828
Main Parameter		
Battery Chemistry		NMC
Capacity (Ah)		28
Nominal Voltage (V)		46.8
Operating Voltage (V)		32.5-54.6
Nominal Energy (kWh)		1.3
Usable Energy (kWh)		1.3
Charge/Discharge Current (A)	Recommended	+14/-14
	Max.	+14/-28
	Peak(25°C)	+14/-28
Other Parameter		
Recommended Depth of Discharge		100%
Dimension (L*W*H, mm)		188 x 155 x 241
Weight Approximate(kg)		9
IP Rating of Enclosure		IP65
Operating Temperature		0-55
Recommend Operating Temperature (°C)		Charge: 0-55, Discharge: -10-60
Storage Temperature		At 30% 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)		1040

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-NMC-4828 battery is the product engineered for E-2W applications. The system integrates Battery Management System (BMS) that provides protection against overcharge, over-discharge, short circuit.