



Sodium-ion

Sodium Na⁺ Battery

NA50

Specifications

MODEL	NA50	NOTE
RATED CAPACITY	50Ah	25±2°C
NOMINAL VOLTAGE	12V	
TOTAL ENERGY	600Wh	
CHEMISTRY	Na ⁺	
CELL TYPE	Cylindrical	
MAXIMUM CONTINUOUS DISCHARGE CURRENT	≤50A	
PEAK DISCHARGE CURRENT	≤100A	@3 seconds
MAXIMUM CHARGE CURRENT	100A (Pulse) - 50A (CC/CV)	@25°C
RECOMMENDED CHARGE CURRENT	25A	
RECOMMENDED CHARGE PROFILE	CC / CV (Constant current / constant voltage)	
RECOMMENDED CHARGE VOLTAGE	15.8V	
MAXIMUM CHARGE VOLTAGE	16V	
UNDER VOLTAGE DISCONNECT	8V	
USABLE TEMPERATURE WINDOW	-30 to 60°C	
CHARGING TEMPERATURE WINDOW	-20 to 45°C	
TERMINAL CONNECTIONS	M6	
CASE TYPE	ABS Plastic IP65 rated	
BASE DIMENSIONS (L*W) (mm)	253*157	Battery base
TOP DIMENSIONS (L*W*H) (mm)	259*171*213	Widest points (top/handles)
HEIGHT WITH TERMINALS (mm)	224	No Items attached
WEIGHT (kg)	6.9	
SMART BMS	50A	Bluetooth enabled
OPTIONAL CONNECTIVITY	CANbus, VE.Can (Victron), RS485	RJ45 interface
CERTIFICATIONS	UKCA, CE, UN38.3, RoHS	
SHIPPING CLASSIFICATION	UN3551 - Class 9	
CONFIGURATION AND EXPANSIONS	16 x parallel, 4 x series to 48V max	
SELF DISCHARGE PER MONTH	< 3%	
CYCLE LIFE	≤3000	70% DOD

*Battery sizes, ports, and terminal positions are subject to change.

