



LITHIUM

MODEL: ATLS12-20

CERTIFICATIONS

UL1642 (Cell), CE (Pack), IEC62133 (Cell), UN38.3 (Cell / Pack), IEC62619 (Cell), ROHS (Cell)



3 YEARS WARRANTY

Specifications

Electrical Specifications	Nominal Voltage	12.8V	
	Nominal Capacity	20Ah	
	Nominal Power	256 Wh	
	Parallel Connection	max 4 units	
	Series Connection	max 4 units	
	Circuit Protection	Overcharge, over discharge, over current, high temperature, short circuit, cell balancing	
	Cycle life	3000 cycles @100% DOD 6000 cycles @80%DOD	
Charge Specifications	Charge Profile	CC @ 0.2C to 14.6V, then CV @ 14.61V until current $\leq 0.01C$ (CC/CV)	
	Max Charge Voltage	14.6 $\pm$ 0.2V	
	Standard Current	4A	
	Max Current	20A	
Discharge Specifications	Standard Current	4A	
	Max Continuous Current	20A	
	Cut-off Voltage	10V	
Environmental Specifications	Charge Temperature	0°C to 55°C	60 $\pm$ 25% Relative Humidity
	Discharge Temperature	-20°C to 60°C	
	Storage Temperature	-20°C to 45°C	
Mechanical Specifications	Dimensions, mm	181x77x168	
	Approx Weight, kg	2.3	
	Terminal type	M4/M5	
	Case Material	Plastic ABS	
	IP Rating	IP65	
	Cell Type	Cylindrical LiFePO ₄	



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MSDS



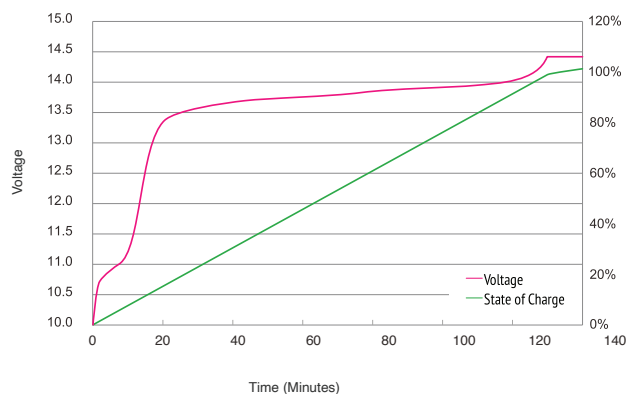
UN38.3



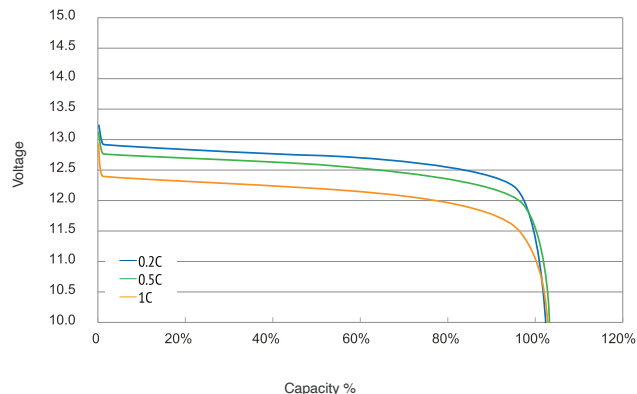
3 YEARS WARRANTY

Characteristics Curve

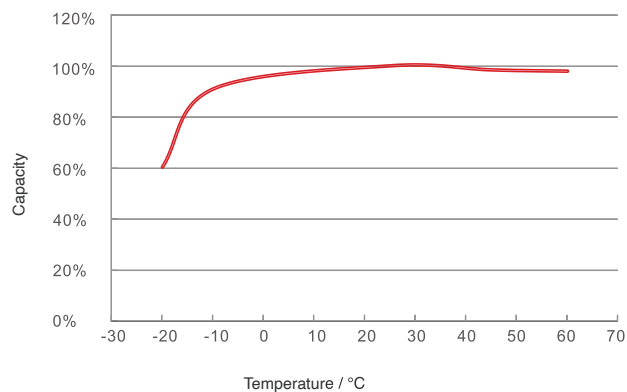
Charging Characteristics (0.5C @25°C)



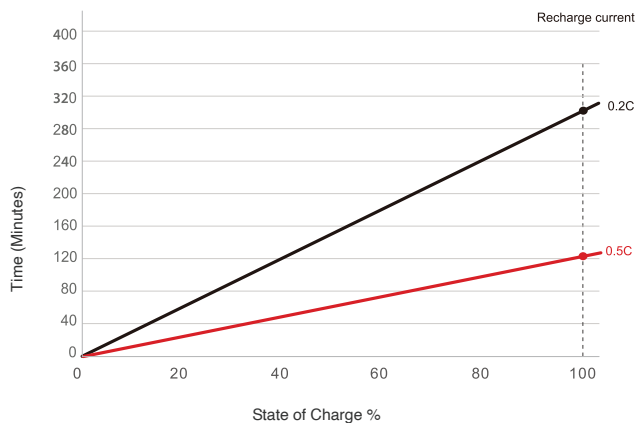
Discharging Characteristics (0.2C, 0.5C, 1C @25°C)



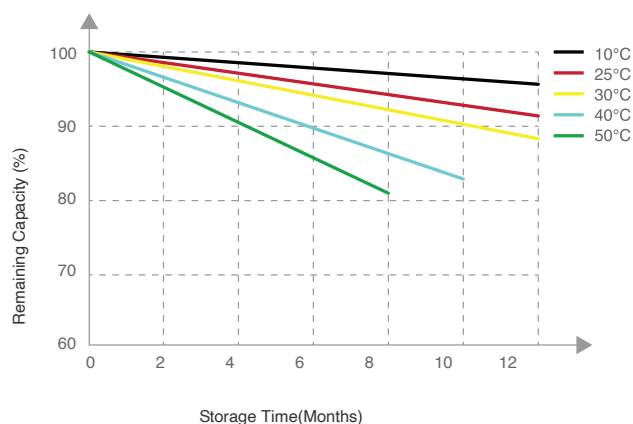
Different Temperature Capacity Curve



Typical Charge Time Curve



Different Temperature Self Discharge Curve



Different DOD Discharge Cycle Life Curve

