



FW 12-100

Electrical Characteristics	
Nominal Voltage [V]	12.8
Nominal Capacity [Ah]	100
Energy [Wh]	1280
Internal Resistance [mΩ]	≤20
Cycle Life	>2000 cycles at 0.2C 100% DoD
Months Self Discharge [%]	<3
Efficiency of Charge	100% at 0.5C
Efficiency of Discharge	96-99% at 1C
Charge	
Charge Voltage [V]	14-14.6
Charge Mode	CC at 0.2C to 14.6V, then at CV 14.6V to charge current less than 0.02C
Charge Current [A]	20
Max. Charge Current [A]	50
Charge Cut-off Voltage [V]	15.6V ± 0.2
Discharge	
Max. Continuous Current [A]	100
Max. Pulse Current [A]	200 (<3s)
Discharge Cut-off Voltage [V]	8
Environment	
Charge Temperature [°C]	0°C to 45°C (32°F to 113°F) at 60 ±25% Relative Humidity
Discharge Temperature [°C]	-20°C to 60°C (-4°F to 144°F) at 60 ±25% Relative Humidity
Storage Temperature [°C]	0°C to 40°C (32°F to 104°F) at 60 ±25% Relative Humidity
Ingress Protection	IP56
Mechanical	
Cell Material	LiFePO ₄
Plastic Case	ABS
Dimensions - H x W x D [mm]	217x327x172
Weight [kg]	13.5
Terminal	M6
BMS	
Protection Function	Over charge protection, Over discharge protection, Over current protection, Short current protection, Balanced function, Temperature protection