

Specification:

Model:		IMP-12V9AH	IMP-12V12AH	IMP-12V20AH	IMP-12V50AH	IMP-RV12V100AH	IMP-12V100AH 100A	IMP-12V300AH 200A	IMP-RV12V100AH -BLUE	IMP-12V100AH 100A-BLUE	
Electrical Characteristics	Nominal Voltage	12.8V	12.8V	12.8V	12.8V	12.8V	12.8V	12.8V	12.8V	12.8V	
	Nominal Capacity	9Ah	12Ah	20Ah	50Ah	100Ah	100Ah	300Ah	100Ah	100Ah	
	Energy	115.2Wh	153.6Wh	256Wh	640Wh	1280Wh	1280Wh	3840Wh	1280Wh	1280Wh	
	Cycle Life	>3000 cycle @80% DoD, discharge rate 0.5C, 25°C					>3000 cycle @80% DoD, discharge rate 0.5C, 25°C				
	Months Self Discharge	≤3.5% per month at 25°C					≤3.5% per month at 25°C				
Standard Charge	Charge Voltage	14.6±0.2V Calculated according to 3.65V voltage of each cell					14.6±0.2V Calculated according to 3.65V voltage of each cell				
	Charge Mode(CC/CV)	At 0℃~45℃ temperature, charged to 14.0V at a constant current of 0.2C, then charged continuously with constant voltage of 14.6V until the current no more than 0.02C					At 0℃~45℃ temperature, charged to 14.0V at a constant current of 0.2C, then charged continuously with constant voltage of 14.6V until the current no more than 0.02C				
	Standard Charge Current	0.2C (1.8A)	0.2C(2.4A)	0.2C (4A)	0.2C (1A)	0.2C (20A)	0.2C (20A)	0.2C (60A)	0.2C (20A)	0.2C (20A)	
	Max. Charge Current	0.5C (4.5A)	0.5C(6A)	0.5C (10A)	0.5C (25A)	0.5C (50A)	0.5C (50A)	100A	0.5C (50A)	0.5C (50A)	
Standard Discharge	Max. Continuous Discharge Current	9A	12A	20A	50A	100A	100A	200A	100A	100A	
	Peak Discharge Current	2C(18A) ($<3S$)	2C(24A) ($<3S$)	2C(40A) ($<3S$)	2C(100A) ($<3S$)	2C(200A) ($<3S$)	2C(200A) ($<3S$)	2C(400A) ($<3S$)	1.5C(150A) ($<3S$)	1.5C(150A) ($<3S$)	
	Discharge Cut-off Voltage	10.0V Calculated according to 2.5V voltage of each cell					10.0V Calculated according to 2.5V voltage of each cell				
Temperature	Charge Temperature	0℃ to 45℃ (32℉ to 113℉) @60±25% Relative Humidity					0℃ to 45℃ (32℉ to 113℉) @60±25% Relative Humidity				
	Discharge Temperature	-20℃ to 60℃ (-4℉ to 140℉) @60±25% Relative Humidity					-20℃ to 60℃ (-4℉ to 140℉) @60±25% Relative Humidity				
	Storage Temperature	-10℃ ~ + 45℃ (every month needs to do charge and discharge for one time if storage and no put in use)					-10℃ ~ + 45℃ (every month needs to do charge and discharge for one time if storage and no put in use)				
Bluetooth Function		-				-		support		support	
Low Temperature Protection		-				-		support		support	
Terminal		F2	F2	M5	M6	M8	M8	M8	M8	M8	
Battery Weight		Approx. 1.35KG	Approx. 1.45KG	Approx. 2.7KG	Approx. 6.5KG	Approx. 11KG	Approx. 11KG	Approx. 33KG	Approx. 11KG	Approx. 11KG	
Battery Dimension		150*65*95mm	151*98*95mm	180*75*165mm	198*166*170mm	352*174*190mm	326*173*215mm	525*230*220mm	352*174*190mm	326*173*215mm	
Housing		ABS				ABS					
Marking Terminal		Positive pole "+", negative "-"				Positive pole "+", negative "-"					
Parallel Connection		support 4pcs in Serial	support 4pcs in Serial	support 4pcs in Serial	support 4pcs in Serial	support 4pcs in Serial	support 4pcs in Serial	support 4pcs in Serial	support 4pcs in Serial	support 4pcs in Serial	
Series Connection		support 4pcs in Parallel	support 4pcs in Parallel	support 4pcs in Parallel	support 4pcs in Parallel	support 4pcs in Parallel	support 4pcs in Parallel	support 4pcs in Parallel	support 4pcs in Parallel	support 4pcs in Parallel	

Product Manual

LiFePO4

