

Magic Battery Pack **36V 230Ah**

MECHANICAL SPECIFICATIONS

MODEL	DIMENSIONS INCHES (MM)			WEIGHT LBS.(KG)	CASE MATERIAL	TERMINAL TYPE	TORQUE	IP Rating	CASE FLAME RATING
36V230	LENGTH	WIDTH	HEIGHT	165.5(75kg)	METAL	M8 X 1.25-D10	9-10 N-m	IP67	UL94 V-0
	20.7(525)	16.5(420)	9.8(250)						

OTHER SPECIFICATIONS

FUNCTION DESCRIPTION	
Nominal Voltage	38.4V
Cell Chemistry	LiFePO4
Cell Type	Prismatic
Ampere-hour Capacity	230Ah
Watt-hour Capacity	8.832kWh
Charge Efficiency	99%
Impedance (50% SOC, 1kHz)	≤ 13mΩ
Cycles @ 70% DOD	>4000
Parallel Connection	Up to 6 (230Ah-1380Ah)
Serial Connection	Up to 2 (38.4V-76.8V)

OTHER SPECIFICATIONS

OTHER DESCRIPTION	
Battery Internal Protection	Short Circuit Current Temperature Over Voltage Under Voltage Over-current
Battery Functions	Cell Balancing, State Of Charge, CAN
Safety Systems	Fuse, Hardware, BMS
Shipping Classification	UN3480, Class 9

DISCHARGE SPECIFICATIONS

EMISSION INSTRUCTIONS	
Continuous Discharge Current	115A
Peak Discharge Current	315A - 300s
Peak Discharge Current	500A -5s
Short Circuit Protection	1600A - 100us, no automatic restart
Low Voltage Reconnect	Automatic
Self-Discharge per Month @ 25°C in OFF mode	3.3%

ENVIRONMENTAL SPECIFICATIONS

Charge Temperature	32°F~131°F (0°C~55°C)
Discharge Temperature	-22°F~140°F (-30°C~60°C)
Operating Humidity	90%RH

CHARGE SPECIFICATIONS

ONLY FOR ONE 36V230

MAXIMUM CHARGING CURRENT				
TEMP \ SOC	<80%	<90%	<98%	<100%
(0,10]	0.37C	0.37C	0.12C	0.12C
(10,45]	1C	0.8C	0.5C	0.5C
(45,55]	0.5C	0.5C	0.4C	0.4C

1. Series connection increases the voltage, the maximum discharge current remains the same.
2. Parallel connection increases the capacity and also increases the maximum discharge current.



Flexible Combination

Supports multiple batteries in parallel or (and) series, up to 76.8V or 1380Ah



Super Safety

Smart BMS provides multi-protection



Intelligent Management

Advanced cell to cell battery to battery balancing design, Automatic fault diagnosis



Easy Connection

Dual M8 terminals
Customizable battery pack according to manual

