

Magic Battery Pack 8D 36V 173Ah

MECHANICAL SPECIFICATIONS

MODEL	DIMENSIONS INCHES (MM)			WEIGHT LBS.(KG)	CASE MATERIAL	TERMINAL TYPE	TORQUE	IP Rating	CASE FLAME RATING
36V173-8D	LENGTH 20.7(525)	WIDTH 11 (280)	HEIGHT 9.8(250)	130(59kg)	METAL	M8 X 1.25-D10	9-10 N-m	IP54	UL94 V-0

OTHER SPECIFICATIONS

FUNCTION DESCRIPTION	
Nominal Voltage	38.4V
Cell Chemistry	LiFePO4
Cell Type	Prismatic
Ampere-hour Capacity	173Ah
Watt-hour Capacity	6.643kWh
Charge Efficiency	99%
Impedance (50% SOC, 1kHz)	≤ 13mΩ
Cycles @ 70% DOD	>4000
Parallel Connection	Up to 6 (173Ah-1050Ah)
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	173A
Peak Discharge Current	250A - 300s
Peak Discharge Current	400A - 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 36V173-8D

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 1050Ah



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

