

FEATURES Lithium Iron Phosphate (LiFePO₄): the Safest Lithium Technology.
Integrated Battery Management System(BMS).

PERFORMANCE Long Cycle Life>2000cycles @100% DOD.
High Density, High Discharge Current, High Temperature Range. Low Weight, Maintenance Free.
Fast Charging.
Environment Friendly.



EX-100C-27 (12.8V/100Ah)

BATTERY DATA SHEET

Electrical Parameters

Nominal Voltage	12.8V
Rated Capacity	100Ah
Energy	1280Wh
Resistance	≤50mΩ
Efficiency	99%
Cycle Life	>2000cycles @1C,100% DOD
Self Discharge	<2% per Month
Cells in Series/Parallel	4S/30P

Mechanical Parameters

Dimension(L x W x H)	303 x 173 x 218.3 mm
	11.93 x 6.81 x 8.59 in
Weight	13.5kg (29.76lbs)
Terminal Type	M8-1.25
Battery Housing	ABS plastic Case
Housing Protection	IP54
Housing Flammability Rating	UL-94 V0
Cell Type-Chemistry	LifePO ₄

Discharge Parameters

Continuous Discharge Current	80A
Max. Discharge Current	100A
Pulse Discharge Current	120A (1 Sec.)
Recommended Volt. Disconnect	10.5V
BMS Discharge Cut-off Voltage	9.2V
Short Circuit Protection	200~600 μs

Charge Parameters

Charge Method	CC-CV
Charge Voltage	14.4~14.6V
Recommended Float Voltage	13.8V
Recommended Charge Current	25A
Maximum Charge Current	50A
BMS Charge Cut-off Voltage	14.6V

Compliance Certificate

Certifications	UL1642, UL File #MH64383
	UN3480, Class 9,UN38.3

Temperature Parameters

Discharge Temperature	-20 to 56° C (-4 to 132° F)
Charge Temperature	0 to 56° C (32 to 132° F)
Storage Temperature	-20 to 45° C (-4 to 113° F)
BMS High Temperature Cut-off	65° C(149° F)



UN 38.3

NOTE: Do Not Mix With Sealed Lead Acid Batteries When Recycling.
See EXPION360 User's Manual for Proper Operation.
© 2020, EXPION360. All Rights Reserved.