DFPA12100

LifePO4 Lithium Battery

Camper RV Marine Solar Home UPS Backup

12V 100Ah Lithium Battery Pack
Over 4000 Cycles life and Maintenance-Free



For RV / Off-Grid Applications

Introduction

DFPA12100 LifePO4 Lithium Deep Cycle Battery, is With the Grade A Cells and Built-in Smart BMS, The Designed Life is Up to 10 Years. 4000 Cycles @ 80%DOD. Protections Include: Charging and Discharge Protection, Hardware Protection for Over-Voltage, Under-Voltage, Temperature, Overload, Short Circuit etc. It is Widely Used in Various Applications, Such as RV, Van, Camper, Marine, Camping, Off-Grid, Solar Home, Ups Backup, Golf Cart etc.

Features

- Grade A Cells and Built-In Smart BMS, with 8 Years of Warranty
- Over Current, Short Circuit, Over Charge and Over Discharge Protection
- 4000 ~ 8000 Cycle Life and Maintenance-Free
- Black Metal Case and Designed for Disassembly Cover With Replaceable BMS and Cells
- High & Low Temperature Auto Cut-Off Protection
- Certified with ISO9001 / UL / CE / UN38.3 / MSDS

Technical Specification

ELECTRICAL PROPERTIES		CHARGE PERFORMANCE	
Nominal Voltage	12.8V	Recommend Charge Current	50A
Nominal Capacity	100Ah	Maximum Charge Current	75A
Run Time at 20A Load	300 Minutes	Recommend Charge Voltage	14.6V
Energy	1280Wh	BMS Charge Cut-off Voltage	< 14.6V(3.65V/Cell)
Internal Resistance	≤ 28mΩ(50% SOC)	BMS Charge Cut-off Recover	< 14.4V(3.60V/Cell)
Self Discharge	< 3% / Month	Balancing Voltage	< 13.5V(3.375V/Cell)
Max Batteries in Series	4 (48v Nominal)	**TEMPERATURE PERFORMANCE**	
Cells	3.2V 100Ah Cells	Discharge Temperature	-4~140℉ (-20 ~ 60 °C)
DISCHARGE PERFORMANCE		Charge Temperature	32~113℉ (0 ~ 45 °C)
Max Continuous Discharge Current	100A	Storage Temperature	23~95℉ (-5 ~ 35 °C)
Peak Discharge Current	200A (1500 ms)	BMS High Temperature Cut-off	149℉ (65 °C)
BMS Short Circuit Cut-off Current	500A (500μs)	Reconnect Temperature	131℉ (55°C)
External Low-Voltage Disconnect	11.2V (2.8V/Cell)	**PHYSICAL PROPERTIES**	
BMS Low-Voltage Disconnect	10V	Overall Dimensions (LxWxH)	275x210x190mm
BMS Low-Voltage Recover	11.9V (2.975V/Cell)	Weight	48Ibs
BMS Short Circuit Protection	500μs	Terminal Thread Type	M8
COMPLIANCE		Case Material	Black Metal Box
Certifications	UL1642 IEC62133(Cells)	Weather Rating	IP50

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