LFP 100-12 (LiFePO4)

12,8V / 100Ah

The COSMOS lithium Series is the definitive choice for a wide variety of markets; Solar and Renewable Energy Storage; Electric Vehicle and Golf cart; Industrial equipment; Floor Machines; Robotics; Marine and UPS systems.

FEATURES:

- Long service life / Long cycle life
- Low self-discharge
- Less weight than lead acid batteries
- Excellent performance in all operation temperatures
- Built-in BMS (Battery Management System)
- Unique QR-coding on each battery
- Batteries don't require much servicing to prolong its service life

Technical Specifications

Lithium Chemistry	: LiFeF	904
Rated Nominal Voltage	: 12,8\	/
Nominal Capacity	: 100A	.h
Nominal Rated Energy	: 1280	Wh
Design Life (Float Application)	: 15 yr	s
Cycle Life (0.2C, 25°C)	: 6000	* (*tested on cell level)
Overall Duty Efficency	: 99,50)%
Number of cells per block	: 4	
- Number of strings per block	: 1	
- Number of cells per string	: 4	
Maximum Series Blocks	: 4	
Maximum Parallel strings	: 4	
Communications Protocols (if applicable)	: No	(optional)
Heater installed	: No	(optional)

Mechanical Specifications

Dimensions (L x W x H)	: 330x172x218 mm
Weight	: 9.8kg
Terminal Type	: M8
Terminal Torque Recommendation	: 12.4 Nm
Case Material	: ABS
IP Class	: IP50

Charging Information

Charging Voltage Range : 14.6~14.8V

Float Voltage Range : 13.6~13.8V

Max. constant current : 100A

Discharging Information

 Cut-off Voltage
 : 8.8V

 Max. constant current
 : 100A

 Max. peak current
 : 420A

Storage/Operating Temperatures

 Storage
 : -20~45 °C

 Discharge
 : -23~65 °C

 Charge
 : -3~65 °C









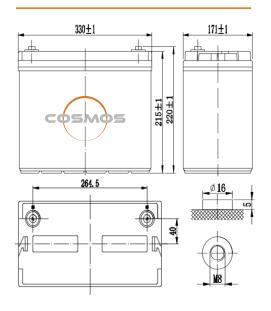


APPLICATIONS:

- Telecom
- Stand-By
- Energy Storage
- Light scooters
- Patient Lifts
- Small Industrial Applications
- RV's / Leisure
- Boats / Nautical
- All light cyclic applications

SAFETY STANDARD:

- UN38.3



See also BMS Parameters

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BMS PARAMETERS

NO.	Type		Function	Setting Value	Remarks	
		Турс	i undion	Model	Remarks	
1		Chargo	Cell Voltage Protection	3.75V Protection	Recover at 3.5V	
2	Voltogo	Charge	Total Voltage Protection	15.0V Protection	Recover at 14.0V	
3	Voltage	Diaghanna	Cell Voltage Protection	2.3V Protection	Recover at 2.7V	
4	Ī	Discharge	Total Voltage Protection	9.2V Protection	Recover at 10.8V	
5			Normal	≤ 100A		
6		Charge	Over Current Protection 1	130A	Delay 10s, recovery in every 1 min	
7	Ī		Over Current Protection 2	-	-	
8	Current		Normal	≤ 50A		
9		Discharge	Over Current Protection 1	200A	Delay 30s, recovery in every 1 min	
10			Over Current Protection 2	≥ 200A and ≤ 500A	Delay 30s, recovery in every 1 min	
11	Ī		Short Circuit Protection	≥ 750A	Delay 1ms	
12		Cell Temp 1	Low Temp Protection	Charging ≤ 0°C Discharging ≤ -20°C	Delay 1 ~ 2s	
13	Temp	Cell Temp 2	High Temp Protection	Charging ≥ 60°C Discharging ≥ 70°C	Delay 1 ∼ 2s	
14		PCB	Range	≥ 95°C	Recovery at 75°C	

STATE OF CHARGE

