

OL12 SERIES

IP65

LiFePO4 BATTERY 12.8V / 100Ah & 200Ah

12.8V • 100Ah / 200Ah • >2000 CYCLES

Lead-acid replacement LiFePO4 battery series offered in 100Ah and 200Ah capacities for storage, backup and mobile power applications.



OL12-100 / OL12-200

IP65 PROTECTION

14.6V MAX CHARGE

100Ah / 200Ah

100A / 200A PEAK

TWO CAPACITY OPTIONS. ONE RELIABLE LFP PLATFORM.

The OL12 Series combines LiFePO4 chemistry, low weight, long cycle life and flexible series/parallel configuration in 100Ah and 200Ah models.

NOMINAL VOLTAGE

12.8V

Standard voltage

CAPACITY

**100 /
200Ah**

Rated capacity options

CYCLE LIFE

>2000

@25°C, 0.5C, 100% DOD

PROTECTION

IP65

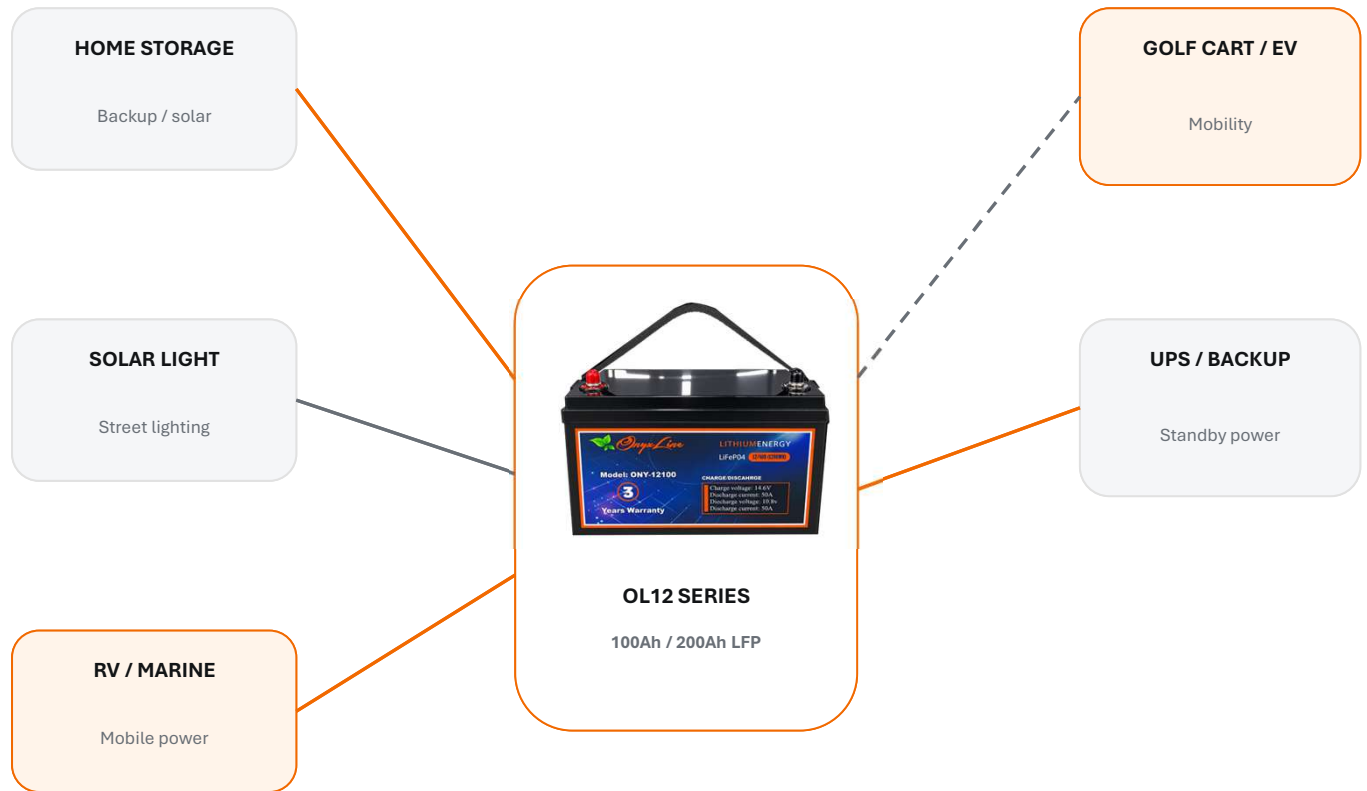
Dust / water protected

LiFePO4 • 50A / 100A Continuous Discharge • 100A / 200A Peak @10s • F12 (M8) • UN38.3 / MSDS

APPLICATIONS & ADVANTAGES

Flexible lithium storage for stationary, mobile and backup power applications

OL12 Series includes two 12.8V LiFePO4 models - OL12-100 (100Ah) and OL12-200 (200Ah) - with IP65 protection, long cycle life and modular series/parallel flexibility.

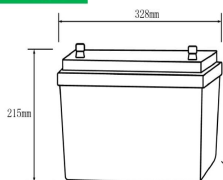


PRODUCT DESIGN - BOTH MODELS

OL12-100

100Ah dimension figure

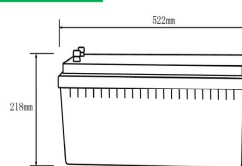
dimension figure :



OL12-200

200Ah dimension figure

dimension figure :



A1

Light weight - about 30% of lead-acid

A2

Long life - more than 2000 cycles

A3

High power - up to twice lead-acid output

A4

Flexible - up to 4 in series, multiple parallel

Home storage • Solar street light • RV • UPS • Golf cart • Electric wheelchair • Boating

Lead-acid replacement series - OL12-100 and OL12-200

BATTERY PERFORMANCE - MODEL COMPARISON

Electrical ratings, charging limits and discharge performance for both OL12 models

CORE ELECTRICAL DATA

PARAMETER	OL12-100	OL12-200
Standard Voltage	12.8V	12.8V
Rated Capacity	100Ah	200Ah
Rated Energy	460.8Wh	2560Wh
Max. Charging Voltage	14.6V	14.6V
Max. Charging Current	50A	100A
Floating Charge Voltage	13.6 - 13.8V	13.6 - 13.8V
Protection Class	IP30	IP30

DISCHARGE PERFORMANCE

PARAMETER	OL12-100	OL12-200
Max. Continuous Discharge Current	50A	100A
Max. Peak Discharge Current @10s	100A	200A
Max. Load Power	500W	1000W
End-off Discharge Voltage	10.8V	10.8V
Cycle Index (25°C, 0.5C, 100% DOD)	>2000 cycles	>2000 cycles

ENVIRONMENT & CONFIGURATION

PARAMETER	OL12-100	OL12-200
Charging Temperature	0°C to +50°C	0°C to +50°C
Discharging Temperature	-20°C to +60°C	-20°C to +60°C
Operating Humidity	<95% R.H.	<95% R.H.
Configuration	23140160-4S1P	53173200-4S1P
Terminals	F12 (M8)	F12 (M8)

Technical values reproduced from the supplied OL12-100 and OL12-200 source datasheet.

PROTECTION & MECHANICAL - BOTH MODELS

Protection, construction, certifications, dimensions and applications

PROTECTION & CERTIFICATION

PARAMETER	OL12-100	OL12-200
Protection Class	IP65	IP65
Certification	UN38.3 / MSDS	UN38.3 / MSDS
Chemistry	LiFePO4	LiFePO4
Series / Parallel Flexibility	Up to 4 in series; multiple parallel	Up to 4 in series; multiple parallel
Low-temperature Performance	Better than lead-acid	Better than lead-acid
Lead-acid Replacement	Lead-acid replacement	Lead-acid replacement
Environmental Protection	Long-service LFP	Long-service LFP

MECHANICAL DATA

PARAMETER	OL12-100	OL12-200
Size (L x W x H)	320 x 165 x 213 mm	564 x 165 x 240 mm
Weight	10.5 kg	18 kg

PERFORMANCE ADVANTAGES

PARAMETER	OL12-100	OL12-200
Weight Advantage	~30% of lead-acid weight	~30% of lead-acid weight
Cycle Life	>2000 cycles; up to 10 years	>2000 cycles; up to 10 years
Power Output	Up to 2x lead-acid output	Up to 2x lead-acid output

TYPICAL APPLICATIONS

PARAMETER	OL12-100	OL12-200
Home Energy Storage	Solar / backup	Solar / backup
Solar Street Light	Street lighting	Street lighting
RV / Power Boating	Mobile / marine	Mobile / marine
UPS / Base Station Backup	Critical backup	Critical backup
Golf Cart / Electric Wheelchair	Mobility	Mobility
Emergency / Fishing	Portable field power	Portable field power
Radio Communication	Communication backup	Communication backup
EV	Light EV	Light EV
Source Specification	12.8V / 100Ah LiFePO4	12.8V / 200Ah LiFePO4

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