



LFP48200LCD

Lithium Iron Phosphate LiFePO₄ Battery



Extended Cycle Life

3500 cycles @ 100% DOD - Cost-effective investment.



Long Life

Its stable chemistry ensures maintenance-free operation and enhanced safety, while extending overall lifespan.



Complete Built-in Protection

Intelligent Battery Management System (BMS) with safeguards against overcharge, over-discharge, overcurrent, and other fault conditions.



3 Year Warranty



Fast Charging

Saves time and boosts productivity by minimizing recharge downtime.



Extreme Heat Tolerance

Exceptional high-temperature performance with minimal capacity degradation.



Ultra-lightweight + High Energy

OSONIX Lithium delivers higher Wh/kg energy density while weighing just 1/3 of equivalent SLA (Sealed Lead-Acid) batteries.



Superior Energy Retention

Up to >12 month energy retention, extremely low self-discharge rate (>3% per month) zero sulfation risk (non-lead chemistry).



Anti-Theft Protection System

BMS lockout mode: Immediately cuts power supply and activates audible alarm upon tampering detection.

PHYSICAL SPECIFICATIONS

Dimensions	Width	17.4 in (442 mm)
	Deep	20.47 in (520 mm)
	Height	9.6 in (244 mm)
Rack units		5.5 U
Weight		174.82 lb (79.3kg)
Terminal		M6
Container Mat.		Oven-Cured Stainless Steel
IP protection		IP30

FUNCTIONS

LCD Screen	Real-Time Battery Module (& Cell) Status
Communication ports	RS232, RS485
LED status indicator	ALM / RUN / SOC%
Parallel communication	Máx. 15 units
BMS (Alarm & Protection)	Against overcurrent, short circuit, overvoltage, overtemperature, low temperature.
External protection / disconnection	Thermal-Magnetic Circuit Breaker

CONDITION OF USE (ENVIRONMENT)

Temperature	Charge	32°F - 113°F (0°C - 45°C)
	Discharge	14°F - 131°F (-10°C - 55°C)
	Storage	-4°F - 140°F (-20°C - 60°C)
Altitude (without derating)		≤ 2000m
Humidity		≤ 95%
Cooling System		Using heat sinks

APPLICATIONS



Telecom



Renewable Energy



Mobile communication equipment



Access network equipment



UPS

TECHNICAL SPECIFICATIONS

Nominal Voltage		48V
Nominal Capacity		200 Ah
Nominal Energy Capacity		9600 Wh
Voltage Range		40.5 ~ 54.7 V
Charging Voltage	Floatation	51.7 V
	Equalization	54 V
Charging current		40 A
Max. Continuous Charging current		100 A
Discharge current		40 A
Max. Continuous discharge current		100 A
Cycles (25°C, 100% DOD)		3500 Cycles
Self-discharge		≤3%
Useful life		≥15 years



Certified to:
IEC 62619:2017 (Clause 5.2.3 compliance)
CE Directive 2014/35/EU
UN Manual of Tests and Criteria, Rev. 7
ISO 9001:2015 & ISO 14001:2015*

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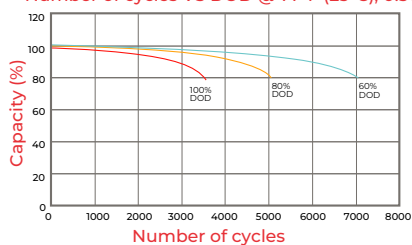
CONSTANT CURRENT DISCHARGE (AMPERES) AT 77°F (25°C)

Final voltage/Time	30min	1 h	2 h	3h	5h	8h	10h	15h	20h
40.5V	--	95 A	50 A	66.6 A	40 A	25 A	20 A	13.3 A	10 A

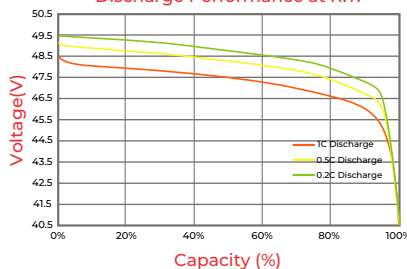
CONSTANT POWER DISCHARGE (WATT/CELL) AT 77°F (25°C)

Final voltage/Time	30min	1 h	2 h	3h	5h	8h	10h	15h	20h
40.5V	--	9120 W	4800 W	3200 W	1920 W	1200 W	960 W	640 W	480 W

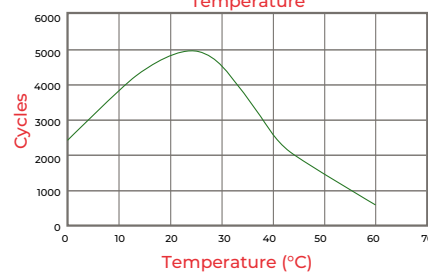
Number of cycles VS DOD @ 77°F (25°C), 0.5C



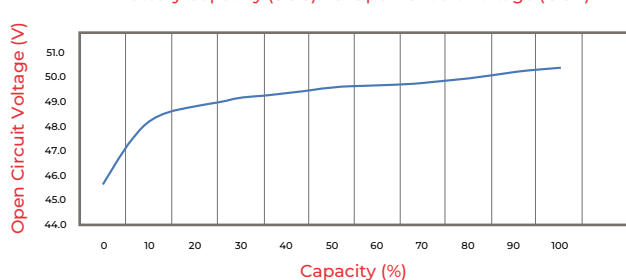
Discharge Performance at R.T.



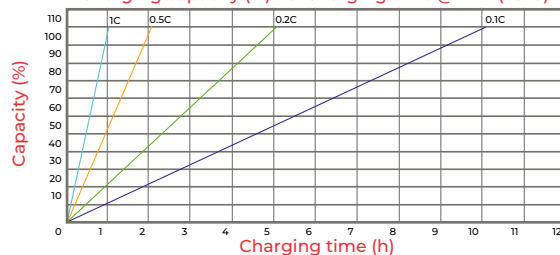
Cycle Life in Relation to Temperature



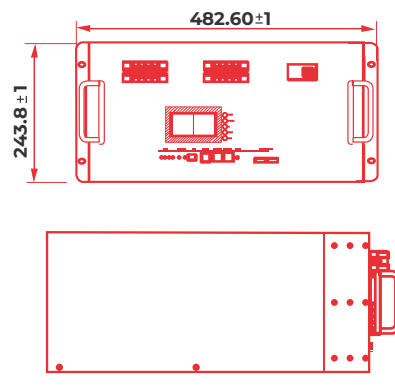
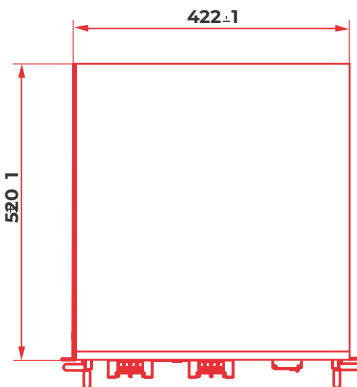
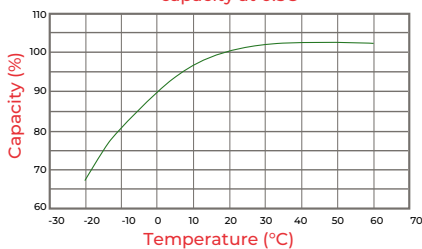
Battery Capacity (SOC) Vs. Open Circuit Voltage (OCV)



Charging capacity (%) Vs. Charging time @77°F (25°C)



Temperature effects on capacity at 0.5C



Osonix

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* Product specifications are subject to change without notice.

* US-V2510-REV 1.03

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