

# Optimized Energy Storage

The **OES2™** utilizes Ojai Energy System's Safe Lithium ion Cell technology in a unique, scalable, intelligent, high-density energy storage product designed specifically for:

- Solar and wind generated energy
- On-grid and Off-grid storage scenarios
- Works with all forms of electricity generation

The key to the **OES2™** is its modular scalability, compact form, safety and long life.

### Benefits of the **OES2™**:

- No ventilation needed, no off gassing
- Safe and reliable, no maintenance
- Thermal stability
- Offers surge protection
- Small footprint, modular, scalable system
- Moisture and corrosion resistant
- Projected 20+ year life
- Recyclable, non hazardous, environmentally benign in its manufacture and disposal per US Gov't
- ROHS compliant, UN-DOT certified cells
- Designed and made in the USA
- 10 year or 2500 cycle warranty



## OES2™ Specifications:

Nominal DC Voltages	12.8 and 25.6
Amp hours	180AH @ 12V / 90AH @ 24V
Maximum Unit Capacity	2300 watt hours
Maximum Output Current	<ul style="list-style-type: none"> <li>• Peak 360 amps @ 12V / 180 amps @ 24V</li> <li>• Running 180 amps @ 12V / 90 amps @ 24V</li> </ul>
DC Input Current Maximum	+/- 180 amps @12V / +/- 90 amps @ 24V
DC Voltage Range	10 to 14.4 @ 12V/20 to 28.8 @24V
Depth of Discharge (DoD)	up to 90%
Warranty	10 year or 2500 cycle warranty
Dimensions	14"L x 10.5"H x 10.25"W
Weight	60 lb
Operating Temperature	-4° to 140° at 100% Capacity

\*\* Specifications subject to change without notice

## Maintenance:

- The **OES<sub>2</sub>**<sup>™</sup> is designed to be essentially maintenance free over the long life of the unit
- Remote monitoring options

## Performance:

- Negligible self discharge over extended periods
- Negligible internal heat gain
- No off gassing
- 90% depth of discharge
- Up to 8 times Cycle life of other battery types
- Fast charging capabilities

## OES<sub>2</sub><sup>™</sup> benefits for residential systems:

- Store excess renewable power for off-peak use or resale
- Reduce energy costs, extend life of appliances and motors
- Back-up and emergency power during grid power failures or maintenance of renewable power sources

## Designing the OES<sub>2</sub><sup>™</sup> :

- **OES<sub>2</sub>**<sup>™</sup> units can be specifically designed to be compatible with varying voltage, current, size and weight applications
- **OES<sub>2</sub>**<sup>™</sup> can be equipped with intelligent energy management circuitry that monitors and controls high and low voltage, temperature and short circuits. The system can continuously monitor cell life and even distribution of energy across the cells
- Residential & small commercial systems can be sized from 1kWh – 250 kWh
  - System can be designed for 24, 48, 72, and higher voltages

