



# OmniPower

The Professional Choice

## OPS SEALED BATTERY RANGE

### Fully-sealed Deep Cycle Rechargeable AGM+Gel VRLA Solar Batteries

- Solar / Wind Power Systems
- Alternative Energy Storage Systems
- UPS / Wheelchair / Golf Carts
- Marine / Navigational Aids
- Communication Back-up at Remote Sites



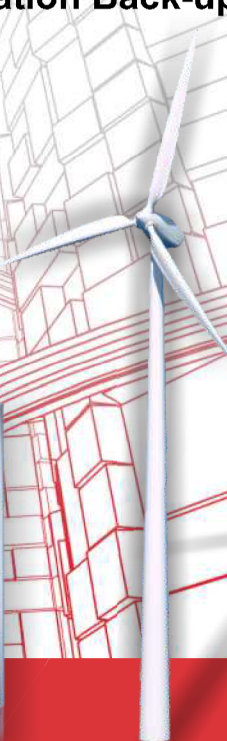
Battery Chargers



Inverters



Solar PV Panels



Wind Turbines



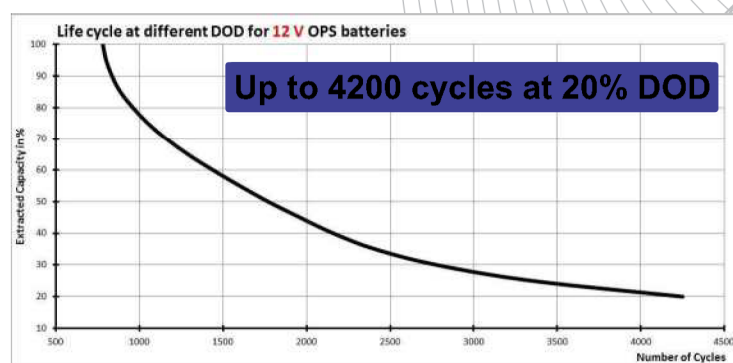
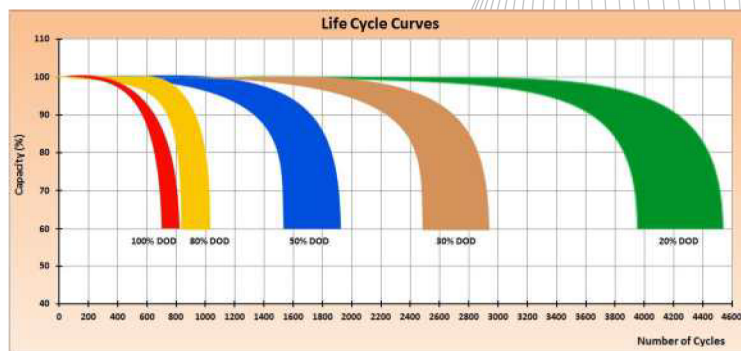
UPS Back-Up Systems

# FULLY-SEALED DEEP CYCLE RECHARGEABLE AGM+GEL VRLA HYBRID SOLAR BATTERIES

Based on 18 years' experience in research and development, the OPS range of batteries is specifically designed for Solar / Wind power applications. These hybrid batteries employ gel and deep cycle technologies and use special components in the lead alloy as well as additional electrolyte, resulting in a much longer cycle life.

## FEATURES

- Reduction of cell failure due to premature dry out
- Extends cycle service life by reducing plate corrosion
- Gelled Thixotropic electrolyte
- Meets EURO BT (draft IEC-896-2), IEEE, JIS and BS 6290 Part 4, using UL certified components
- 8 - 10 year design life (in a standby application)
- Convenient carrying handles
- 8mm Screw Terminals



Model	Nominal Voltage	Rated Capacity C/100	Rated Capacity C/10	Length (mm)	Width (mm)	Height (mm)	Total Height (incl. Terminals)	Approx. Weight Kg	Terminal Type
OPS60-12	12	60	50	229	138	208	227	19.5	8mm Screw
OPS120-12	12	120	100	330	174	215	230	30.0	8mm Screw
OPS180-12	12	180	150	480	172	241	241	44.0	8mm Screw
OPS260-12	12	260	200	524	235	220	235	60.0	8mm Screw

Certifications : ISO9001, ISO14001, TLC, CE and UL.

## CHARGING METHOD:

- Constant voltage, constant current charging method recommended.
- The charging voltage must be checked regularly.
- To optimise battery performance, ensure that the voltage is kept within the following limits :
- For standby application, 2.25 V/cell (at 25°C), -3mV / °C for every degree Celsius above 25°C, the initial charge current, 0.2C.
- For deep cycle application, 2.40~2.45 V/cell (at 25°C), -3mV / °C for every degree Celsius above 25°C, the initial charge current, 0.2C - 0.3C.

## TEMPERATURE EFFECTS:

Temperature affects batteries in different ways. The OPS batteries will operate in extreme temperatures ranges from -15°C to 50°C. However, Gel battery nominal capacity and optimum performance are based on operating temperatures of 20 - 25°C. Above these temperatures, the battery capacity will increase slightly but its life will decrease substantially at higher temperatures. When designing your battery system, the different discharge and recharge performance at different temperatures should be taken into account. (See right)

BATTERY FLOAT CHARGING (Temperature compensation)	
Temperature Deg. °C	Float Charge Volts/Cell
5	2.31
10	2.29
15	2.27
20	2.25
25	2.25
30	2.23
35	2.21