# 3 OPzS-ET 235 SOLAR

## Vented Flooded Deep Cycle Battery

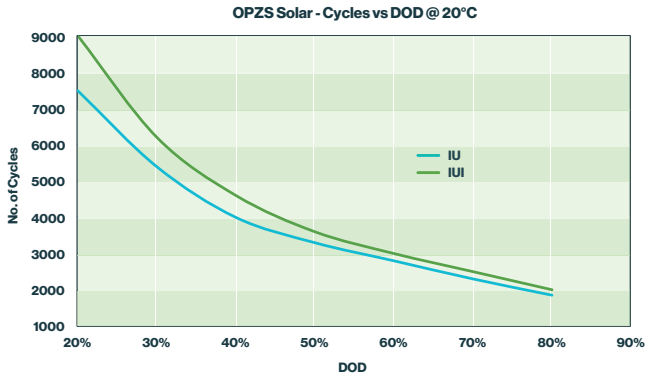
## Performance characteristics

| | |
|---|---|
| Nominal Voltage | 2V |
| Number of cells | 1 |
| Design Life | 20 years |
| **Nominal Capacity 25°C (77°F)** | |
| 120 hour rate (2.0A, 1.8V) | 244Ah |
| 48 hour rate (4.5A, 1.8V) | 216Ah |
| 10 hour rate (17.4A, 1.8V) | 174Ah |
| **Internal Resistance** | |
| Fully Charged Battery 25°C (77°F) | 0.94mOhm |
| **Electrolyte** | |
| Nominal S.G at 20°C = 1.240kg/l | |
| **Operating Temperature Range** | -20~55°C |
| **Maximum Discharge Current 25°C (77°F)** | 288A |
| **Charge Methods: Constant Voltage Charge 25°C (77°F)** | |
| Cycle use | 2.40V (time limited) |
| Maximum charging current | 69.6A |
| Standby use | 2.25V ± 1% |
| Temperature compensation | -3.5mV/°C/Cell |
| **Terminal Torque** | 23Nm |

## Capacities C10-C240

| Cell Type Ue (100%) / VPC Ref Temp | C10 1.80 25°C | C12 1.80 25°C | C20 1.80 25°C | C24 1.80 25°C | C48 1.80 25°C | C72 1.80 25°C | C100 1.85 25°C | C120 1.85 25°C | C240 1.85 25°C |
|---|---|---|---|---|---|---|---|---|---|
| 3OPzS-ET 235 SOLAR | 174 | 176 | 192 | 201 | 216 | 229 | 237 | 244 | 254 |

## Cycles vs DOD of OPzS Solar Power




## Features

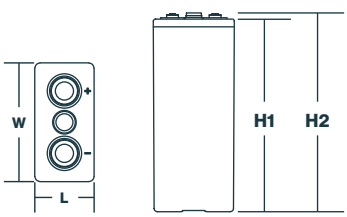
- High energy density
- Robust tubular positive electrode design, compliant with DIN 40736
- Minimal maintenance due to low antimony alloy and large electrolyte volume
- Operating temperature -20°C to +55°C
- Low self discharge rate of approximately 3% per month at 20°C
- EUROBAT design life: Long Life >12 years
- Fully recyclable with low $CO_2$ footprint
- High cyclic performance
- 3000+ cycles @ 60% DOD @ IUI charging

## Applications

- Solar/Wind Power Stations
- Traffic Systems
- Hydro Power Generation
- Off Grid Solutions
- Telecommunications/ Mobile Phone Stations
- Power Distribution Companies

## Dimensions and weight

| | |
|---|---|
| Length (max) | 105 mm |
| Width (max) | 208 mm |
| Height: H1 (max) | 360 mm |
| Total height: H2 (max) | 375 mm |
| Filled weight (max) | 15.6 kg |






**Compliant with** IEC 60896-11 / IEC 61427