

# 2 OPzV-ET 140 SOLAR

## VRLA Gel Deep Cycle Battery



### Performance characteristics

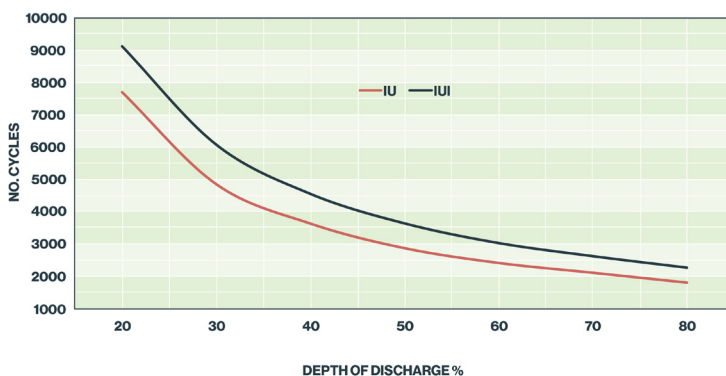
Nominal Voltage	2V
Number of cells	1
Design Life	20 years
<b>Nominal Capacity 25°C (77°F)</b>	
120 hour rate (1.18A, 1.85V)	141Ah
48 hour rate (2.65A, 1.8V)	127Ah
10 hour rate (11.0A, 1.8V)	110Ah
<b>Internal Resistance</b>	
Fully Charged Battery 25°C (77°F)	1.93mOhm
<b>Self-Discharge</b>	
2% of capacity declined per month at 25°C (average)	
<b>Operating Temperature Range</b>	-20-55°C
<b>Maximum Discharge Current 25°C (77°F)</b>	174A
<b>Charge Methods: Constant Voltage Charge 25°C (77°F)</b>	
Cycle use	2.40V
Maximum charging current	53.5
Standby use	2.25V ± 1%
Temperature compensation	-3.5mV/°C/Cell
<b>Terminal Torque</b>	23Nm

### Capacities C10-C240

Cell Type Ue (100%) / VPC Ref Temp	C10 25°C	C24 25°C	C48 25°C	C72 25°C	C100 25°C	C120 25°C	C240 25°C
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2OPzV-ET140 SOLAR	110	126	127	139	137	141	146
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### Cycles vs DOD of OPzV Solar Power



### Features

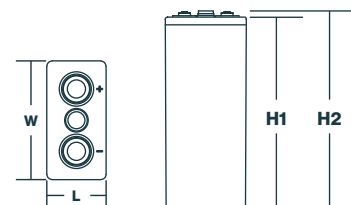
High energy density and cyclic performance
Robust tubular positive electrode design, compliant with DIN 40742
>1500 cycles at 80% D.O.D at 20°C (68°F)
Low self discharge rate <2% @ 20°C allows for 6 months shelf life
Operating temperature -20°C to +55°C
EUROBAT design life: Long Life >12 years
Fully recyclable with low CO <sub>2</sub> footprint
3000+ cycles @ 60% DOD @ IUI charging

### Applications

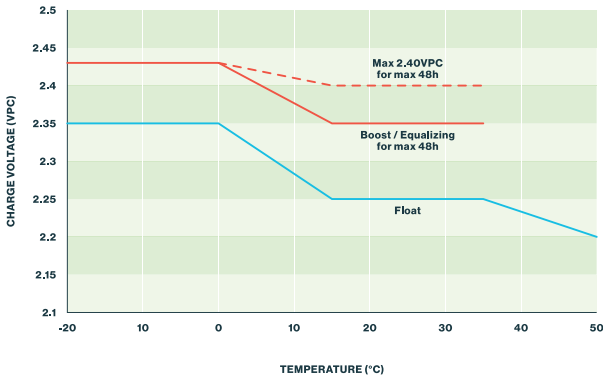
Solar/Wind Power Stations
Traffic Systems
Hydro Power Generation
Off Grid Solutions
Telecommunications/ Mobile Phone Stations
Power Distribution Companies

### Dimensions and weight

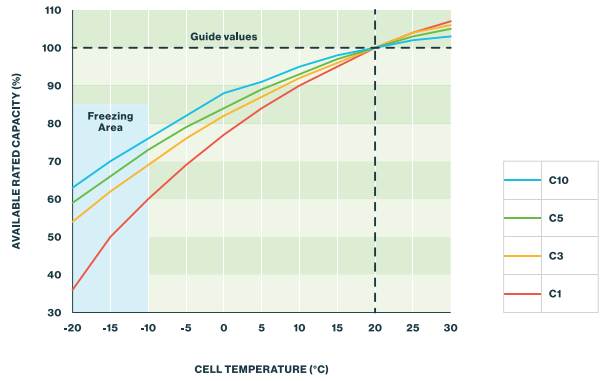
Length	103 mm
Width	206 mm
Height (H1)	354 mm
Total height (H2)	367 mm
Approx. weight	10.5kg



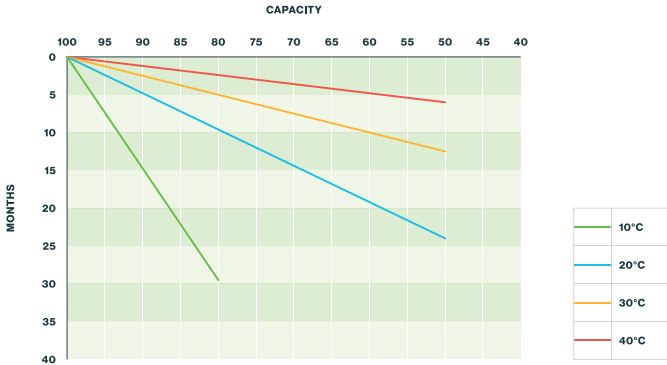
Charging voltage vs. Temperature



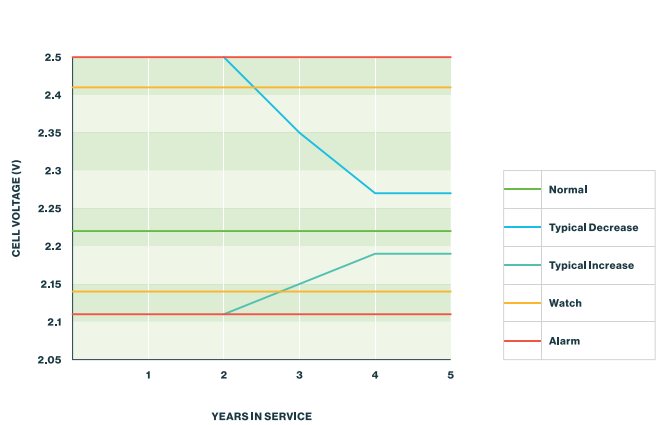
Capacity vs. Temperature



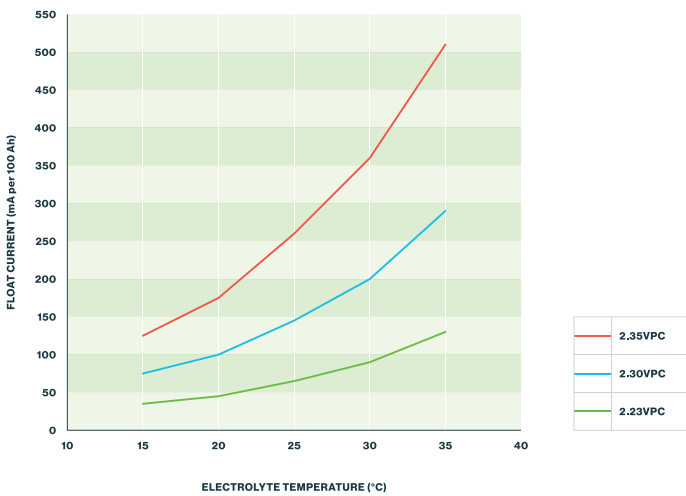
Self discharge at different temperatures



Float voltage deviation vs. Years in service



Float current: Residual charge current



Storage: Determine the state of charge

