

VRLA TUBULAR GEL Battery

OPzV150-12

SPECIFICATIONS

Nominal Voltage (V)	12
Designed Floating Life	20+ Years
Nominal Capacity	150AH@ 10HR to 10.8V
Dimensions	L522mm x W240mm x H224mm
Approx. Weight	54kg(118.8lbs)
Terminal Type	Female Copper Insert M8 (torque:10~12N.m)
Internal Resistance	Approx. 7mOhm (fully charged @ 20°C)
Max. Charge Current	30 A
Max. Discharge Current (5S)	1000 A
Short Circuit Current	1700 A
Self Discharge	Approx. 2% per month @ 20°C
Ambient Temperature	Discharge: -40~65°C Charge: -30~65°C Storage: -25~45°C
Float Charge Voltage (20~25°C)	2.25-2.29V (-3mV /°C/ cell)
Equalize Charge Voltage (20~25°C)	2.35-2.40V (-5mV /°C/ cell)
Container Material	ABS(UL94-V0 optional)



ISO9001



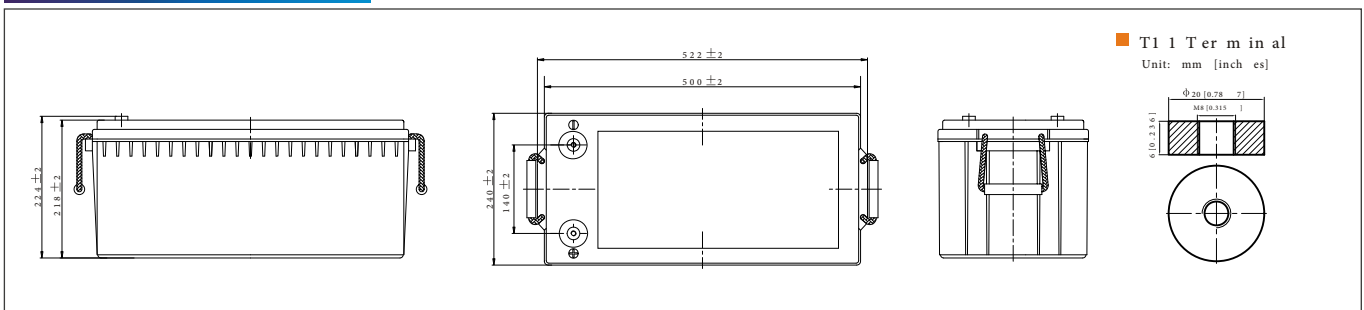
ISO14001



Complied standards

- IEC 60896-21/22
- DIN40742
- IEC61427
- YD/T1360
- Eurobat guide, long life
- BS6290 part 4
- UL1989

DIMENSIONS



Battery Construction

Component	Positive plate	Negative plate	Container	Safety valve	Terminal	Separator	Electrolyte
Raw material	Tubular Plate	Pure Lead	ABS(UL94-HB)	Rubber	Copper	PE-SiO2	Gel

Constant Current Discharge (Amperes) at 25°C(77°F)

E.V/Time	10min	15min	30min	1h	3h	5h	10h	20h
1.60V	347	282	163	97.0	40.1	28.1	15.5	7.93
1.65V	327	267	158	95.0	39.4	27.6	15.4	7.90
1.70V	306	253	153	93.0	38.5	27.1	15.3	7.90
1.75V	286	239	147	91.0	38.0	26.6	15.2	7.85
1.80V	263	226	144	89.0	37.4	26.0	15.0	7.80

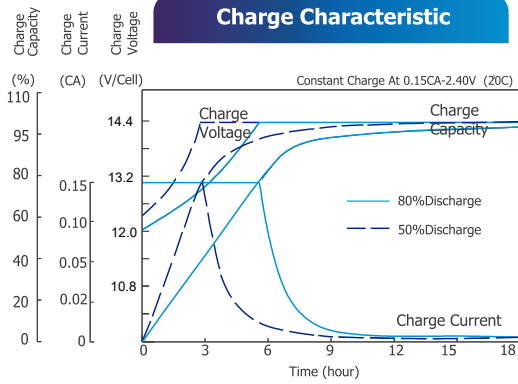
Constant Power Discharge (Watts/cell) at 25°C(77°F)

E.V/Time	10min	15min	30min	45min	1h	2h	3h	5h
1.60V	609	501	325	221	201	112	78.0	53.5
1.65V	579	483	315	216	198	110	77.1	53.2
1.70V	548	465	306	211	195	108	76.2	52.8
1.75V	519	446	296	206	190	106	75.3	52.5
1.80V	487	425	286	202	184	105	74.0	52.0

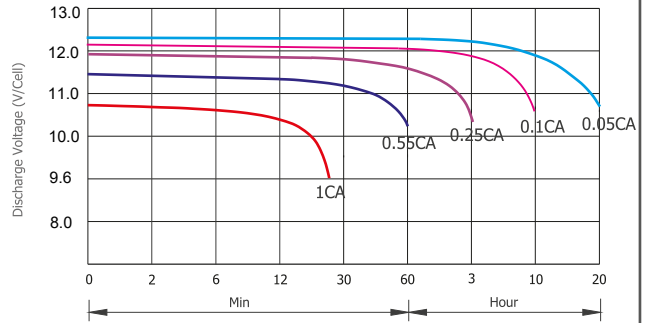
Note: The above characteristics data are average values obtained Within three charge/discharge cycles not the minimum.

CHARACTERISTICS

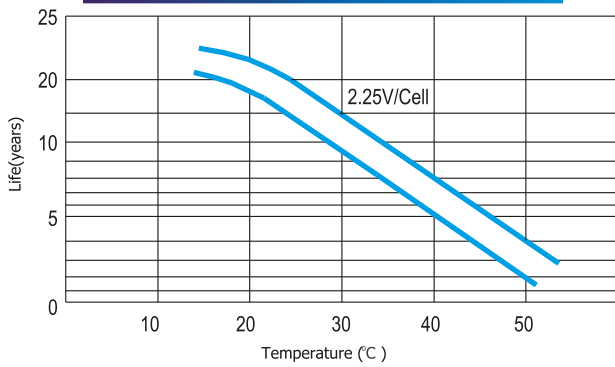
Charge Characteristic



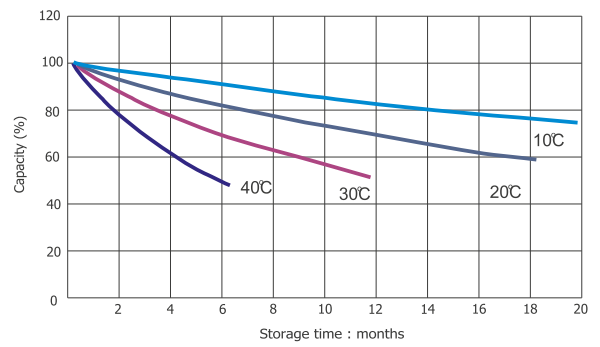
Discharge Characteristic (20°C)



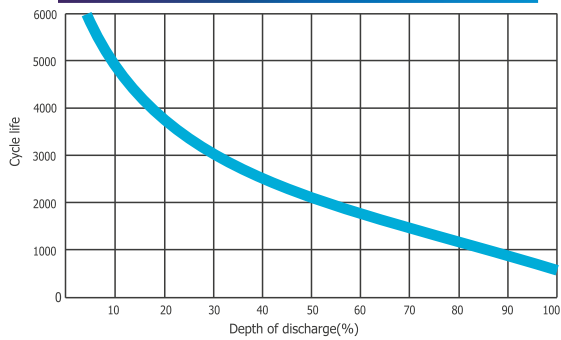
Temperature vs Float Life



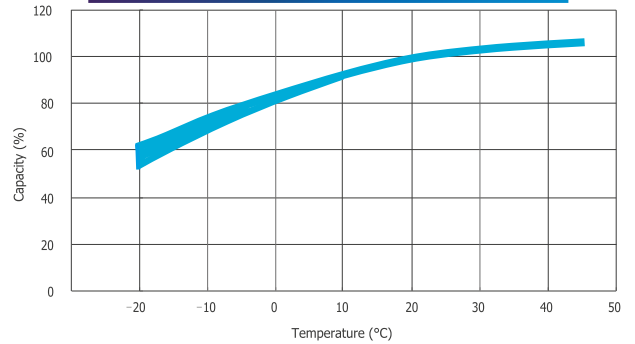
Self Discharge Characteristics



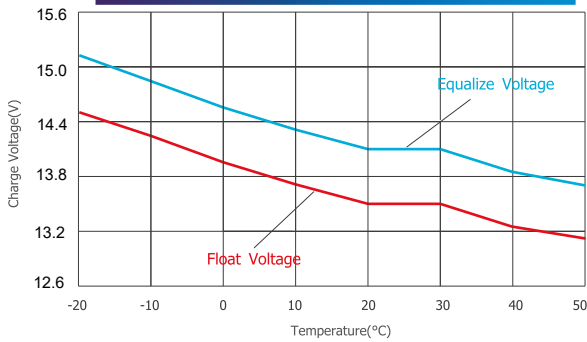
Cycle Life vs Depth of Discharge



Capacity vs Temperature



Charge Voltage Capacity vs Temperature



Charge Capacity vs Time

