VRLA TUBULAR GEL Battery

OPzV100-12

SPECIFICATIONS

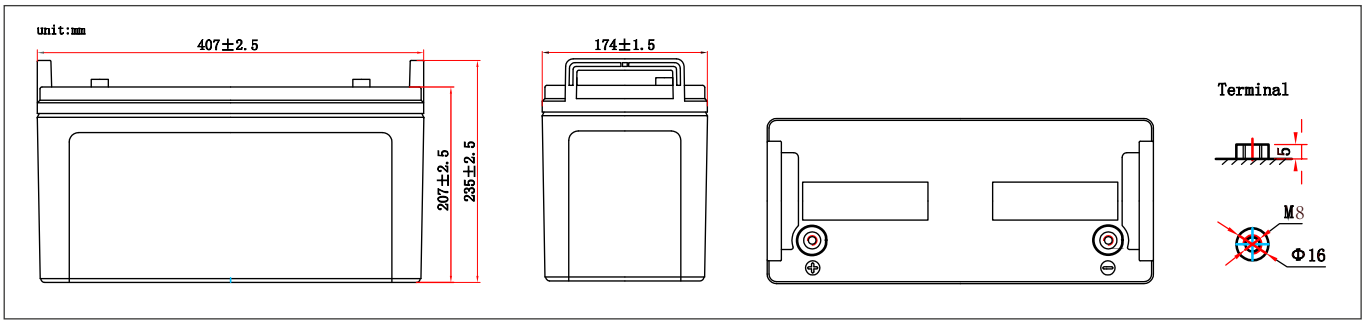
Nominal Voltage (V)	12
Designed Floating Life	20+ Years
Nominal Capacity	100Ah@C_{10} (to 1.8Voc)
Demensions	L407mm x W174mm x H235mm
Approx. Weight	33kg(72.6lbs)
Terminal Type	Female Copper Insert M8 (torque:10~12N.m)
Internal Resistance	Approx. 8mOhm (fully charged @ 20°C)
Max. Charge Current	20 A
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 (20~25C)	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	231	190	112	65.0	27.5	18.3	10.4	5.30
1.65V	220	182	108	62.8	26.5	17.8	10.3	5.25
1.70V	208	173	103	60.5	25.5	17.2	10.2	5.20
1.75V	196	164	98.7	58.2	24.4	16.6	10.1	5.15
1.80V	183	154	93.7	55.7	23.2	15.9	10.0	5.12

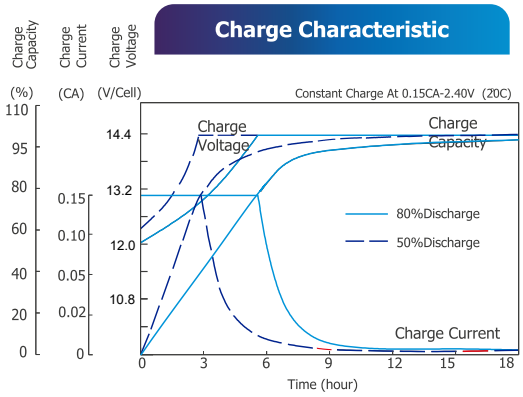
Constant Power Discharge (Watts/cell) at 25°C(77°F)

E.V/Time	10min	15min	30min	45min	1h	2h	3h	5h
1.60V	395	315	200	152	124	70.5	52.0	35.0
1.65V	379	305	193	147	121	68.5	51.0	34.0
1.70V	362	293	185	142	118	66.0	49.8	33.3
1.75V	344	281	177	136	114	63.5	48.5	32.1
1.80V	324	267	168	129	109	60.9	47.0	31.6

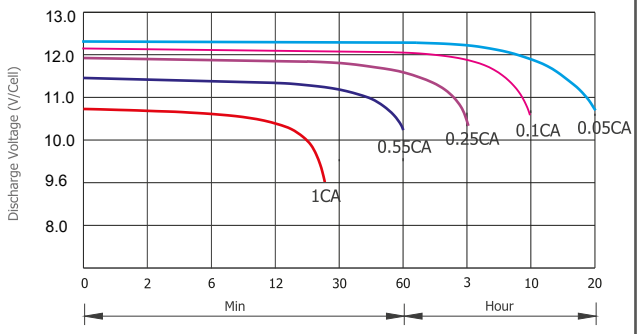
Note: The above characteristics data are average values obtained Within three charge/discharge cycles not the minimum.

CHARACTERISTICS

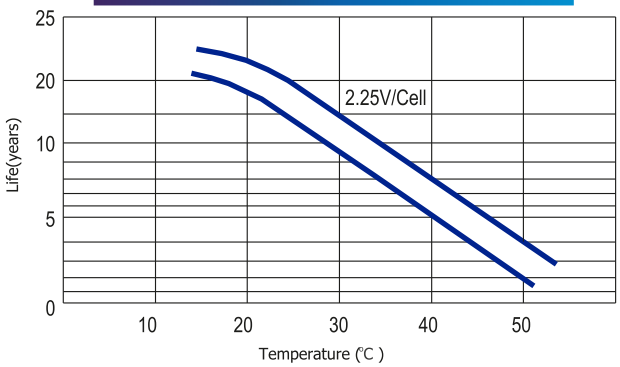
Charge Characteristic



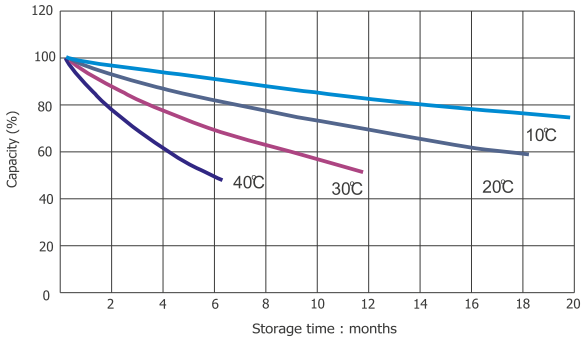
Discharge Characteristic (20C°)



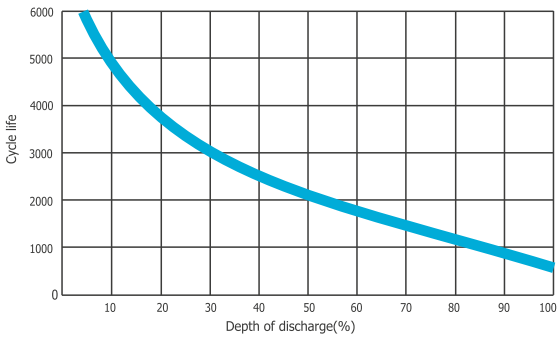
Temperature vs Float Life



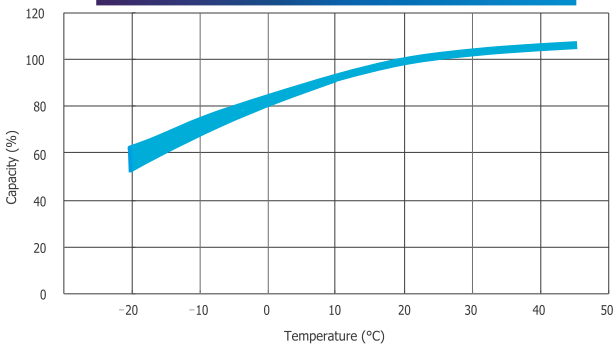
Self Discharge Characteristics



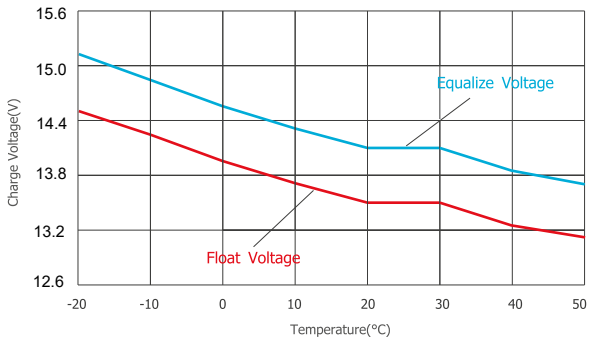
Cycle Life vs Depth of Discharge



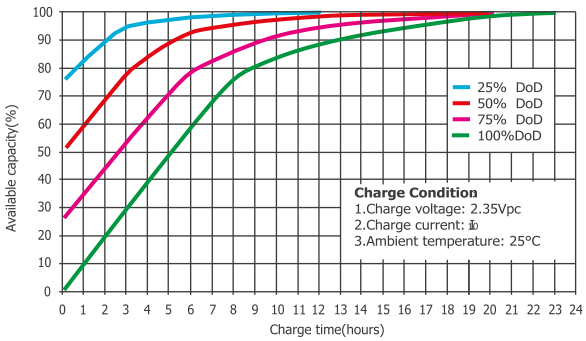
Capacity vs Temperature



Charge Voltage Capacity vs Temperature



Charge Capacity vs Time



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