General Purpose VRLA Battery

GENERAL FEATURES

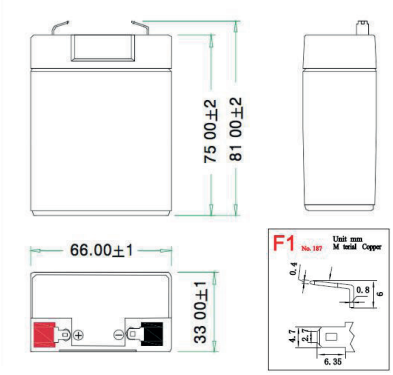
- Environmentally friendly
- Can be used at vertical or horizontal orientation
- High Reliability and Good Quality
- High gas recombination efficiency
- High Power Density
- Maintenance-Free Operation

APPLICATIONS

- UPS & EPS
- Emergency lighting Systems
- Medical Equipment
- Cable TV Systems
- Alarm Systems
- Electric Test Equipment
- Security Systems

DIMENSIONS & WEIGHT

Length(mm)	47±1
Width(mm)	66±1
Heighth(mm)	33±1
Total Heighth(mm)	75±1
Weight(kg)	0.33±3%



COMPLIED STANDARDS

IEC 60896-21/22	JIS C8704
YD/T799	BS6290 part4
GB/T 19639	UL 1989

TECHNICAL SPECIFICATIONS

Nominal Voltage		4V(2 cells per unit)
Design Floating Life @25℃		5 Years
Nominal Capacity @25℃(20 hour rate@0.200A,10.50V)		3.00Ah
Capacity @25℃	10 hour rate (0.27A,10.8V)	2.70Ah
	5 hour rate (0.51A,10.5V)	2.60Ah
	1 hour rate (1.8A,9.6V)	1.80Ah
Internal Resistance	Full Charged Battery@25℃	≤30.0mΩ
Ambient Temperature	Discharge	-20℃~50℃
	Charge	-20℃~50℃
	Storage	-20℃~50℃
Max.Discharge Current@25℃		60A(5s)
Capacity affected by Temperature (10 hr Capacity)	40℃	102%
	25℃	100%
	0℃	80%
	-15℃	50%
Self-Discharge@25℃ per Month		3%
Charge (Constant Voltage) @25℃	Floating Charge	Initial Charging Current Less than 0.9A Voltage 4.50-4.60V
	Cycle Charge	Initial Charging Current Less than 0.9A Voltage 4.80-5.00V

BATTERY DISCHARGE TABLE

Discharge Constant Currentper Cell (Amperesat25°C)

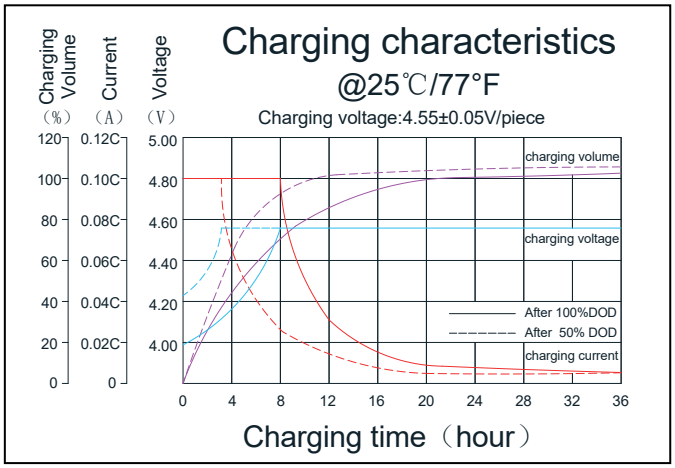
F.V/Time	5min	10min	15min	30min	45min	1h	2h	3h	5h	8h	10h	20h
1.60V	10.31	7.46	5.87	3.44	2.41	2.06	1.22	0.833	0.555	0.368	0.300	0.158
1.67V	10.13	7.37	5.71	3.38	2.36	2.03	1.19	0.818	0.548	0.368	0.293	0.155
1.70V	9.94	7.17	5.58	3.32	2.32	1.99	1.17	0.803	0.533	0.360	0.293	0.153
1.75V	9.75	6.83	5.42	3.25	2.27	1.95	1.15	0.788	0.525	0.353	0.285	0.150
1.80V	9.38	6.75	5.25	3.13	2.19	1.88	1.10	0.758	0.503	0.338	0.285	0.149

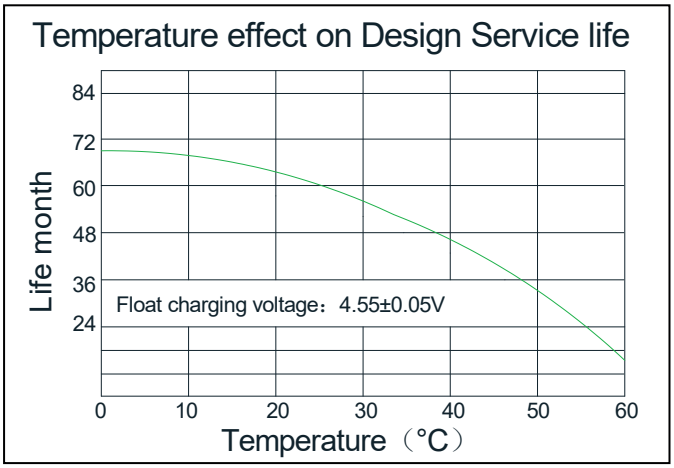
Discharge Constant Powerper Cell (Wattsat25°C)

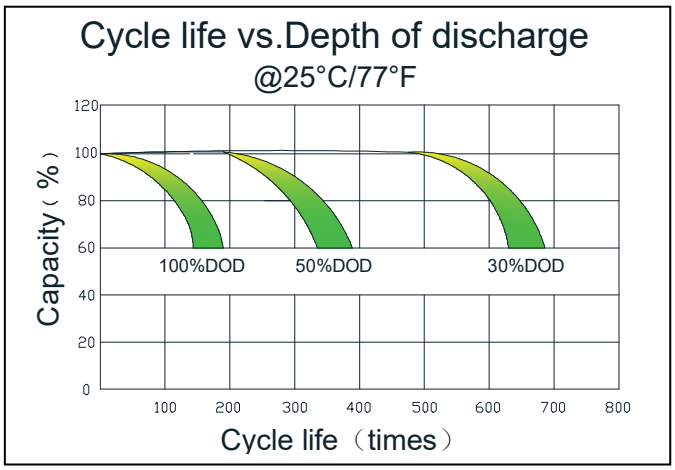
F.V/Time	5min	10min	15min	30min	45min	1h	2h	3h	5h	8h	10h	20h
1.60V	19.9	14.7	11.3	6.62	4.64	3.97	2.34	1.60	1.07	0.720	0.593	0.313
1.67V	19.5	14.5	11.0	6.50	4.55	3.90	2.30	1.57	1.04	0.705	0.585	0.305
1.70V	19.1	14.2	10.7	6.38	4.46	3.83	2.25	1.55	1.03	0.690	0.570	0.300
1.75V	18.8	13.3	10.4	6.26	4.38	3.76	2.21	1.52	1.01	0.683	0.563	0.296
1.80V	18.0	12.9	10.1	6.02	4.22	3.61	2.12	1.46	0.968	0.653	0.548	0.292

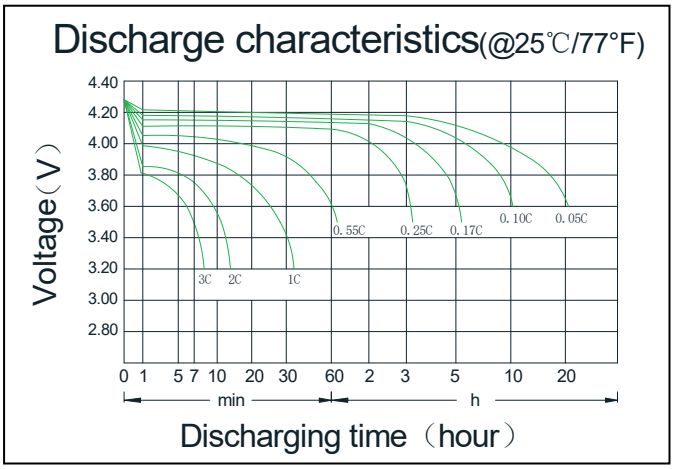
Note The above data are average values, and can be obtained within 3 charge/discharge cycles. These are not minimum values.
Cell and battery designs/specifications are subject o modification without notice.

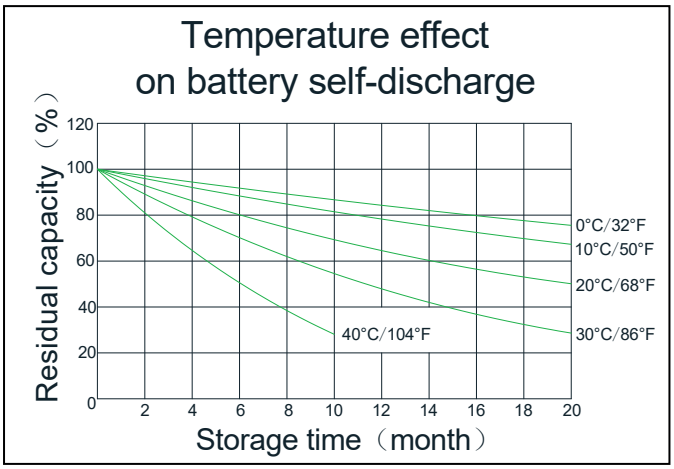
PERFORMANCE CHARACTERISTICS

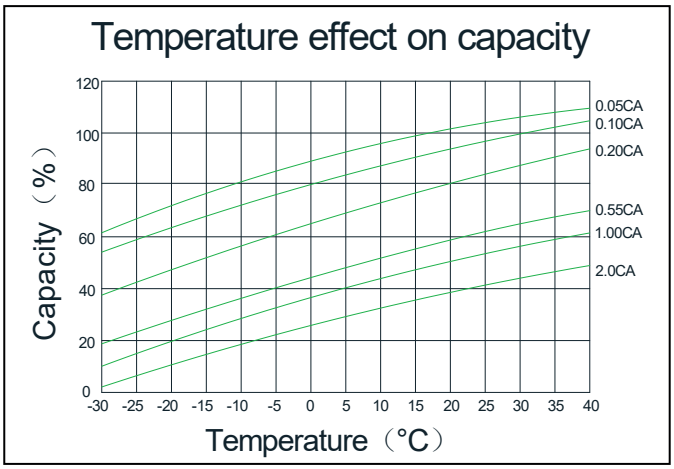












BATTERY CONSTRUCTION

Component	Positive plate	Negative plate	Container &Cover	Safety valve	Terminal	Separator	Electrolyte	Pillar seal
Features	Thick high Sn low Ca grid with special paste	Balanced Pb-Ca grid for improved recombination efficiency	ABS (UL94-V0 optional)	Flame Si-Rubbeand aging resistancer	Female Copper Insert（F1）	Advanced AGM separator for high pressure cell design	Dilute high purity sulphuric acid	Two layers epoxy resin seal