YANGZHOU BRIGHT SOLAR SOLUTIONS CO., LTD
Web:www.brsolar.net Hotline: Hotline: +86-514-87600306

OPzV2-1500(2V1500Ah)

OPzV series is Valve Regulated Lead Acid battery that adopts immobilized GEL and Tubular Plate technology to offer high reliability and performance. The Battery is designed and manufactured according to DIN standards and with die-casting positive grid and patented formula of active material OPzV series exceeds DIN standard values with more than 20 years floating design life at 25 ℃ and It is the best solution for cyclic use under extreme operating conditions.

ISO 9001 ISO 14001 ISO45001

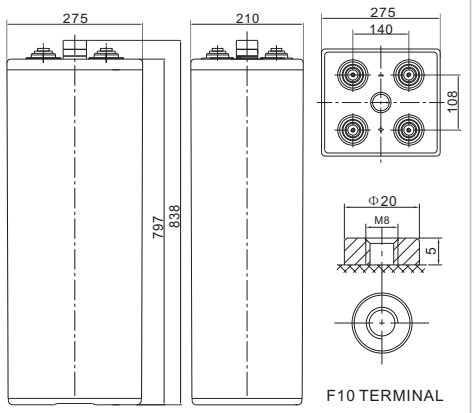
G4M20206-0910-E-16

Specification

Cells Per Unit	1
Voltage Per Unit	2
Nominal Capacity	1500Ah@10hr-rate to 1.80V per cell @25℃
Weight	Approx. 107 Kg (Tolerance±3.0%)
Internal Resistance	Approx. 0.45 mΩ
Terminal	F10(M8)
Max. Discharge Current	4500A (5 sec)
Design Life	20 years (floating charge)
Max. Charging Current	300.0 A
Reference Capacity	C3 1152.0AH C5 1301.5AH C10 1500.0AH C20 1602.6AH
Float Charging Voltage	2.25 V~2.30 V @ 25℃ Temperature Compensation: -3mV/℃/Cell
Cycle Use Voltage	2.37 V~2.40 V @ 25℃ Temperature Compensation: -4mV/℃/Cell
Operating Temperature Range	Discharge: -40℃~60℃ Charge: -20℃~50℃ Storage: -40℃~60℃
Normal Operating Temperature Range	25℃±5℃
Self Discharge	Valve Regulated Lead Acid (VRLA) batteries can be stored for up to 6 months at 25℃ and then recharging is recommended. Monthly Self-discharge ratio is less than 2% at 20℃.Please charged batteries before using.
Container Material	A.B.S. UL94-HB, UL94-V0 Optional.

Dimensions

Unit: mm



Length	275±2mm (10.8 inches)
Width	210±2mm (8.27 inches)
Height	797±2mm (31.3 inches)
Total Height	838±2mm (33 inches)
Torque Value	10~12 N*m

Constant Current Discharge Characteristics :A(25℃)

F.V/ Time	10min	15min	30min	1h	2h	3h	5h	8h	10h	20h
1.60V	1695	1502	1181	848.9	541.8	403.6	271.0	187.1	156.9	82.36
1.65V	1540	1352	1069	836.0	533.2	398.9	268.4	185.9	155.6	81.70
1.70V	1434	1281	1028	814.7	524.6	391.7	264.2	183.8	154.3	80.98
1.75V	1277	1174	972.3	780.6	511.7	384.0	260.3	181.1	152.6	80.13
1.80V	1079	1049	911.6	750.7	494.5	375.5	255.2	178.1	150.0	78.75
1.85V	877.7	866.1	783.0	669.7	451.6	345.2	236.8	166.5	140.6	73.83

Constant Power Discharge Characteristics : WPC(25℃)

F.V/ Time	10min	15min	30min	1h	2h	3h	5h	8h	10h	20h
1.60V	2737	2420	1993	1591	1028	771.4	525.0	367.0	309.4	162.4
1.65V	2668	2458	1963	1574	1019	767.2	520.6	365.3	307.8	161.6
1.70V	2529	2363	1907	1544	1002	754.3	516.4	361.9	305.1	160.2
1.75V	2294	2197	1820	1493	980.4	741.5	507.8	358.0	302.1	158.6
1.80V	1973	1991	1725	1446	958.9	728.7	499.4	352.8	297.9	156.4
1.85V	1633	1668	1495	1292	877.2	673.3	465.2	330.1	279.4	146.7

(Note) The above characteristics data are average values obtained within three charge/discharge cycle not the minimum values.
The battery must be fully charged before the capacity test. The C_{10} should reach 95% after the first cycle and 100% after the third cycle.

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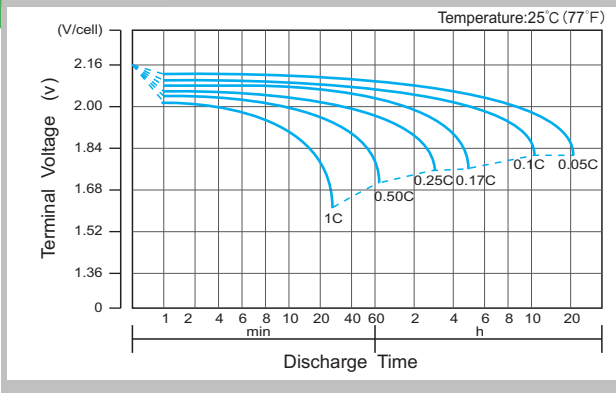
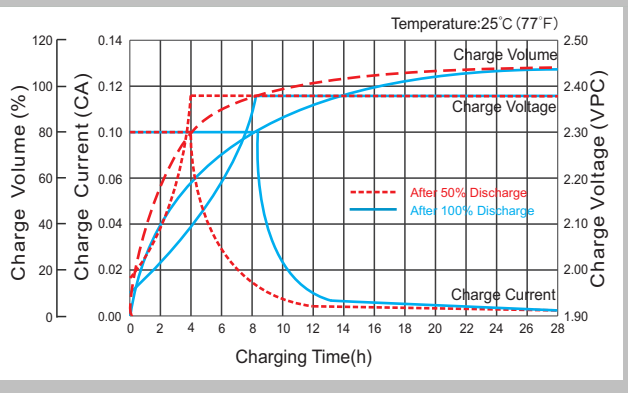
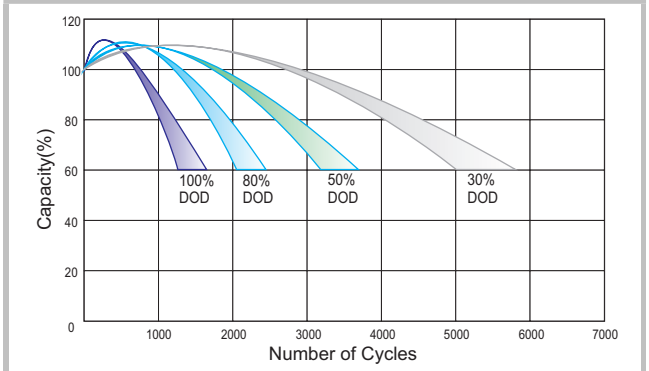
Discharge Characteristics Curve



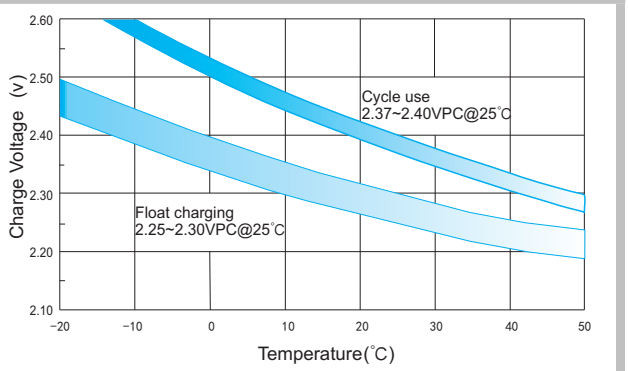
Charge Characteristic Curve for Cycle Use(IU)



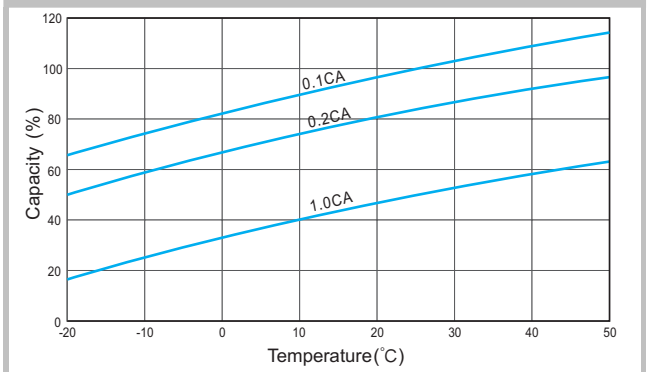
Cycle Life in Relation to Depth of Discharge



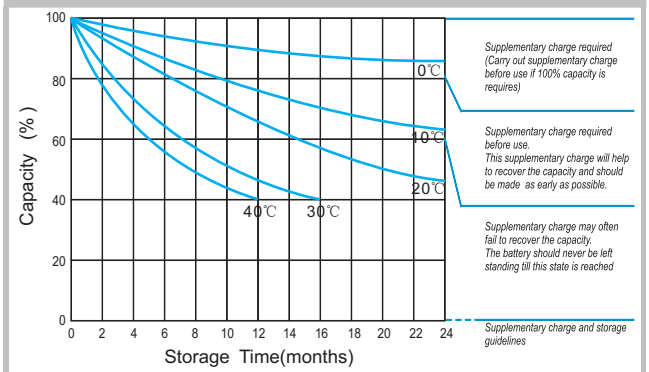
Relationship Between Charging Voltage and Temperature



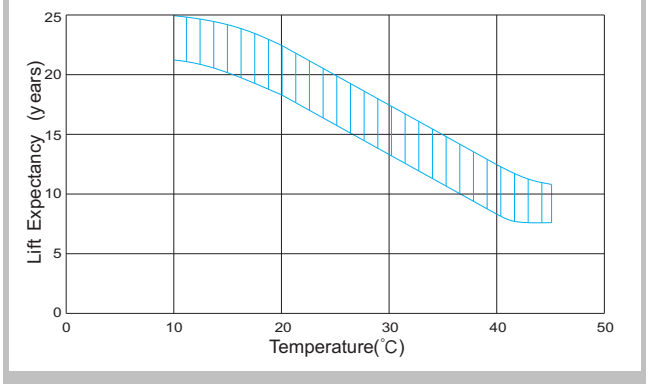
Temperature Effects on Capacity



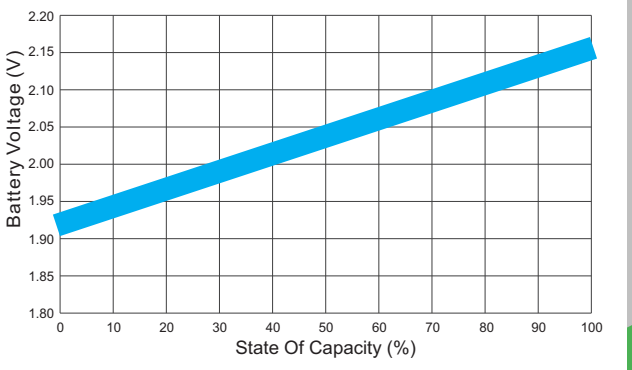
Storage Characteristics



Effect of Temperature on Long Term Life



Relationship of OCV And State of Charge(20℃)



(Note) All above information shall be changed without prior notice, BR SOLAR reserves the right to explain and update the latest information.

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