

OPzV2-2500(2V2500Ah)



Ritar 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 °C ,and It is the best solution for cyclic use under extreme operating conditions.

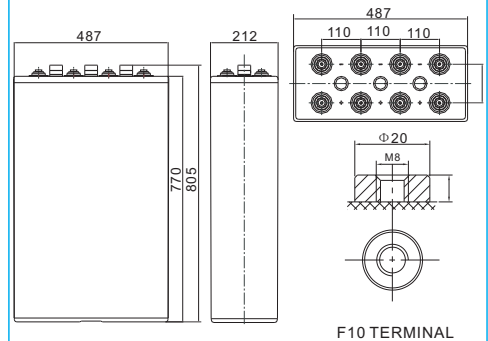


Specification

Cells Per Unit	1
Voltage Per Unit	2
Nominal Capacity	2500Ah@10hr-rate to 1.80V per cell @25°C
Weight	Approx. 190.0 Kg (Tolerance ± 1%)
Internal Resistance	Approx. 0.35 mΩ
Terminal	F10(M8)
Max. Discharge Current	10000A (5 sec)
Design Life	20 years (floating charge)
Maximum Charging Current	500.0 A
Reference Capacity	C3 1891.5AH C5 2125.0AH C10 2500.0AH C20 2677.5AH
Float Charging Voltage	2.25 V~2.30 V @ 25°C Temperature Compensation: -3mV/°C/Cell
Cycle Use Voltage	2.37 V~2.40 V @ 25°C Temperature Compensation: -4mV/°C/Cell
Operating Temperature Range	Discharge: -40°C~60°C Charge: -20°C~50°C Storage: -40°C~60°C
Normal Operating Temperature Range	25°C ± 5°C
Self Discharge	RITAR Valve Regulated Lead Acid (VRLA) batteries can be stored for up to 6 months at 25°C and then recharging is recommended. Monthly Self-discharge ratio is less than 2% at 25°C. Please charge batteries before using.
Container Material	A.B.S. UL94-HB, UL94-V0 Optional.

Dimensions

Unit: mm



Length	487±2mm (19.2 inches)
Width	212±2mm (8.35 inches)
Height	770±2mm (30.3 inches)
Total Height	805±2mm (31.7 inches)
Torque Value	10~12 N*m

Constant Current Discharge Characteristics : A(25°C)

F.V/ Time	30min	1h	2h	3h	4h	5h	6h	8h	10h	20h
1.90	1230	975.0	687.5	521.5	427.5	369.5	332.5	259.5	222.5	116.8
1.87	1375	1075	737.5	553.0	451.3	388.5	352.5	271.6	232.5	122.1
1.83	1575	1200	800.0	589.3	475.0	405.5	365.0	283.7	242.5	127.3
1.80	1750	1300	830.0	606.3	484.5	415.0	375.0	291.0	250.0	131.3
1.75	1950	1393	867.5	630.5	492.5	425.0	382.5	295.9	255.0	133.9
1.70	2150	1438	892.5	642.8	501.1	430.0	387.5	298.3	257.5	135.2
1.65	2218	1528	922.5	660.0	508.3	435.0	392.5	300.7	260.0	136.5
1.60	2313	1580	957.5	687.5	522.5	442.5	397.5	303.1	262.5	137.8

Constant Power Discharge Characteristics : WPC(25°C)

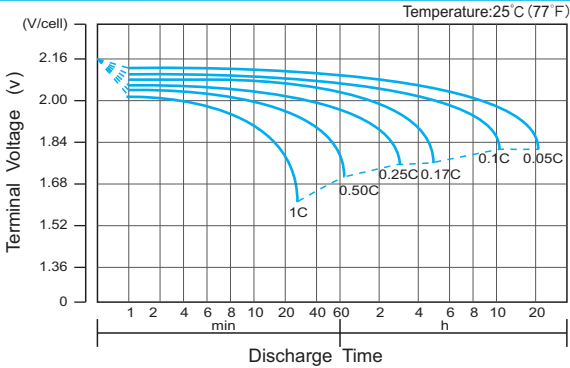
F.V/ Time	30min	1h	2h	3h	4h	5h	6h	8h	10h	20h
1.90	2354	1872	1329	1010	836.7	727.5	657.5	519.0	453.5	238.1
1.87	2590	2033	1410	1058	881.9	762.5	695.0	540.8	472.9	248.3
1.83	2902	2216	1500	1113	924.6	792.5	717.5	560.2	489.9	257.2
1.80	3171	2364	1550	1138	942.2	810.0	735.0	572.3	502.0	263.5
1.75	3440	2470	1600	1173	954.8	830.0	747.5	579.6	509.3	267.4
1.70	3688	2495	1641	1194	969.8	837.5	755.0	584.4	514.1	269.9
1.65	3751	2605	1686	1219	982.4	845.0	762.5	589.3	516.5	271.2
1.60	3796	2686	1726	1259	1008	852.5	767.5	591.7	519.0	272.4

(Note) The above characteristics data are average values obtained within three charge/discharge cycle not the minimum values.

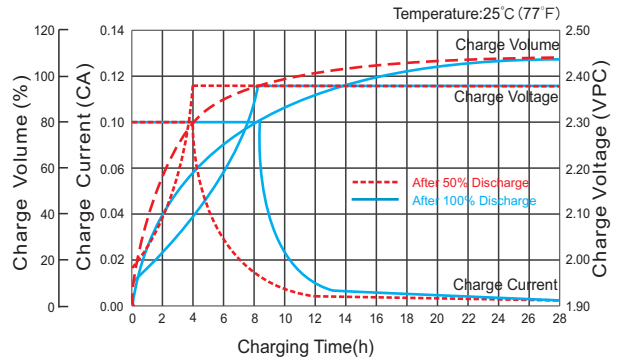
OPzV2-2500(2V2500Ah)



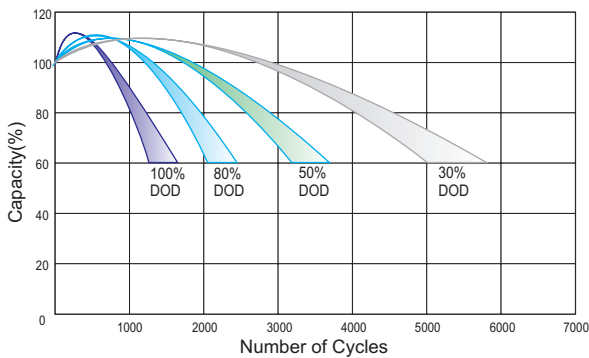
Discharge Characteristics Curve



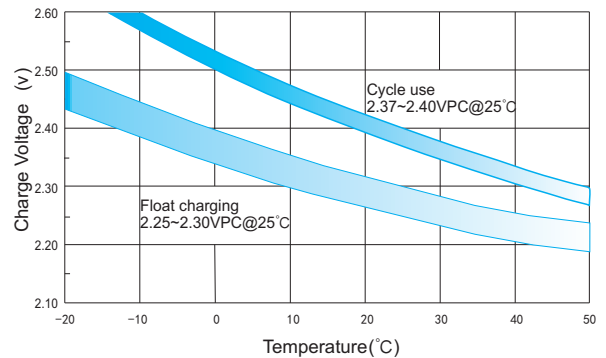
Charge Characteristic Curve for Cycle Use(IU)



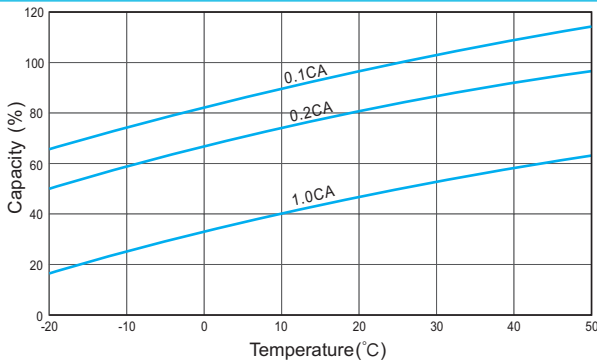
Cycle Life in Relation to Depth of Discharge



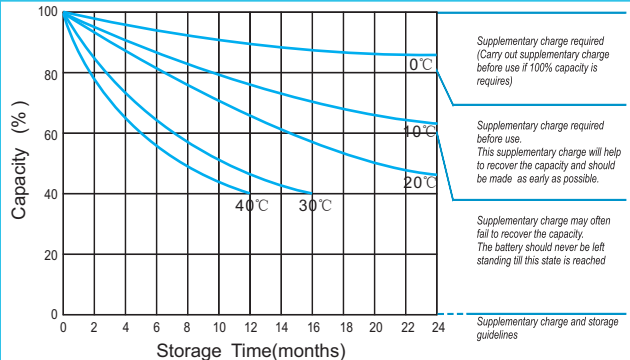
Relationship Between Charging Voltage and Temperature



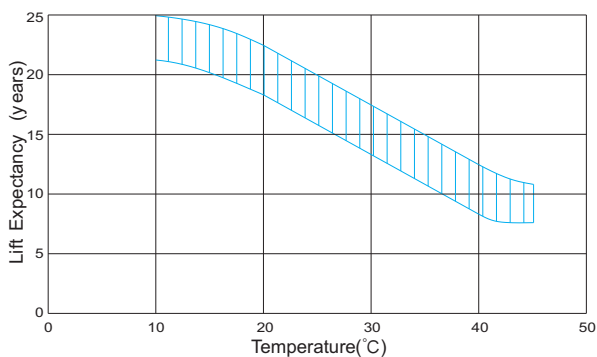
Temperature Effects on Capacity



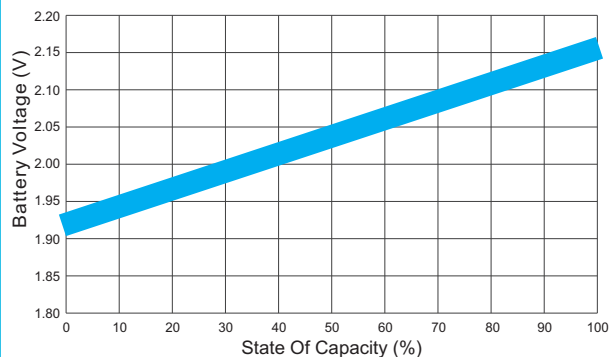
Storage Characteristics



Effect of Temperature on Long Term Life



Relationship of OCV And State of Charge(20°C)



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