OPzV2-3000(2V3000Ah)

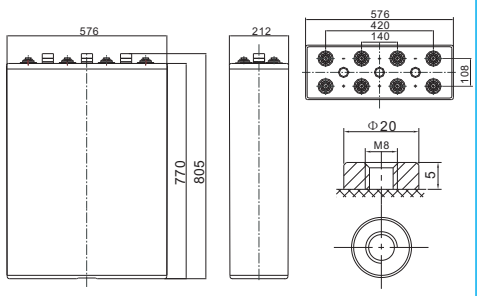
RITAR®

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 ℃ ,and It is the best solution for cyclic use under extreme operating conditions.

Specification

Cells Per Unit	1
Voltage Per Unit	2
Nominal Capacity	3000Ah@10hr-rate to 1.80V per cell @25℃
Weight	Approx. 225.0 Kg (Tolerance±1%)
Internal Resistance	Approx. 0.35 mΩ
Terminal	F10(M8)
Max. Discharge Current	12000A (5 sec)
Design Life	20 years (floating charge)
Maximum Charging Current	600.0 A
Reference Capacity	C3 2269.8AH C5 2550.0AH C10 3000.0AH C20 3213.0AH
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	RITAR 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 25℃.Please charged batteries before using.
Container Material	A.B.S. UL94-HB, UL94-V0 Optional.

Dimensions



F10 TERMINAL

Length	576±2mm (22.7 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℃)

F.V/ Time	30min	1h	2h	3h	4h	5h	6h	8h	10h	20h
1.90	1476	1170	825.0	625.8	513.0	443.4	399.0	311.4	267.0	140.2
1.87	1650	1290	885.0	663.6	541.5	466.2	423.0	325.9	279.0	146.5
1.83	1890	1440	960.0	707.1	570.0	486.6	438.0	340.5	291.0	152.8
1.80	2100	1560	996.0	727.5	581.4	498.0	450.0	349.2	300.0	157.5
1.75	2340	1671	1041	756.6	591.0	510.0	459.0	355.0	306.0	160.7
1.70	2580	1725	1071	771.3	601.4	516.0	465.0	357.9	309.0	162.2
1.65	2661	1833	1107	792.0	609.9	522.0	471.0	360.8	312.0	163.8
1.60	2775	1896	1149	825.0	627.0	531.0	477.0	363.8	315.0	165.4

Constant Power Discharge Characteristics : WPC(25℃)

F.V/ Time	30min	1h	2h	3h	4h	5h	6h	8h	10h	20h
1.90	2825	2246	1595	1212	1004	873.0	789.0	622.7	544.2	285.7
1.87	3108	2439	1691	1269	1058	915.0	834.0	648.9	567.5	297.9
1.83	3482	2659	1800	1336	1110	951.0	861.0	672.2	587.8	308.6
1.80	3805	2837	1860	1366	1131	972.0	882.0	686.8	602.4	316.2
1.75	4128	2964	1921	1408	1146	996.0	897.0	695.5	611.1	320.8
1.70	4426	2994	1969	1432	1164	1005	906.0	701.3	616.9	323.9
1.65	4501	3127	2023	1462	1179	1014	915.0	707.1	619.8	325.4
1.60	4556	3223	2071	1511	1209	1023	921.0	710.0	622.7	326.9

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

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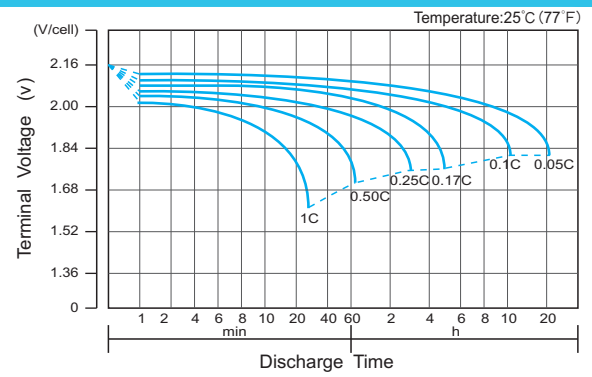
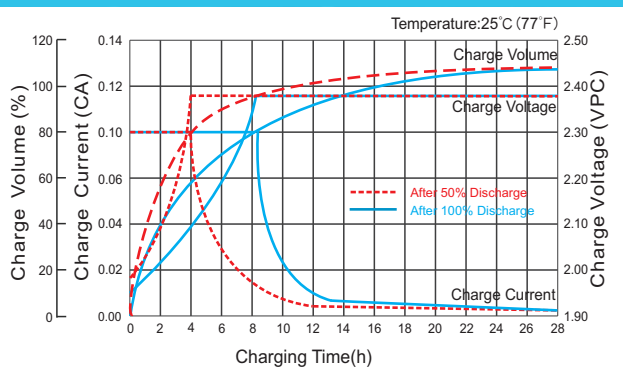
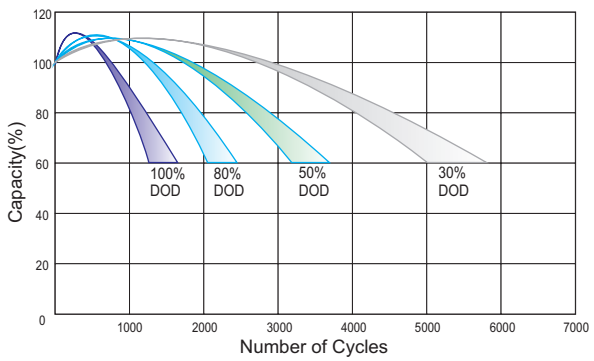
Discharge Characteristics Curve



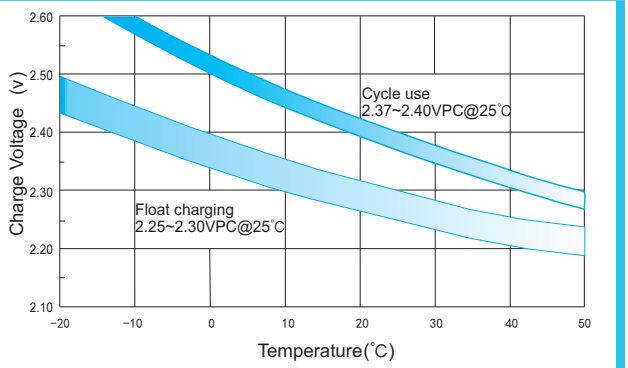
Charge Characteristic Curve for Cycle Use(IU)



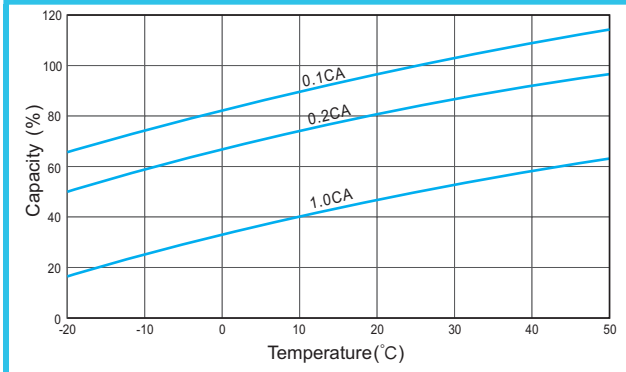
Cycle Life in Relation to Depth of Discharge



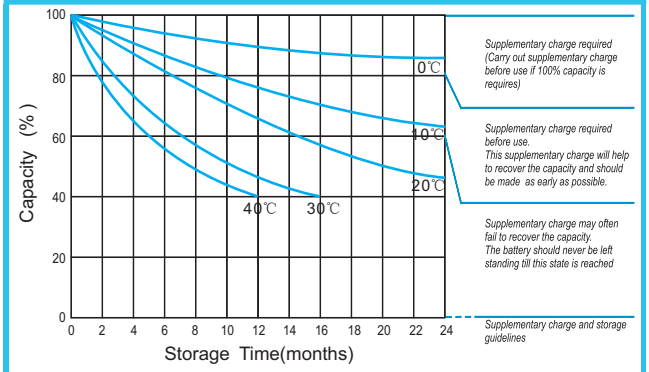
Relationship Between Charging Voltage and Temperature



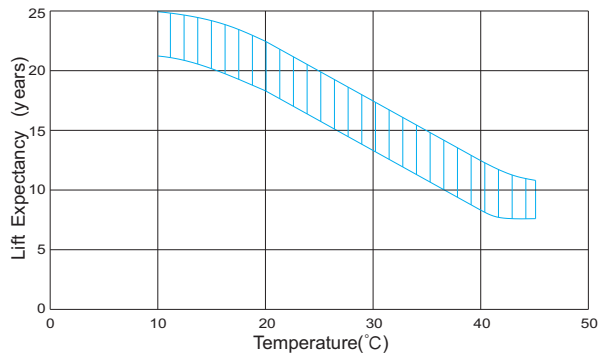
Temperature Effects on Capacity



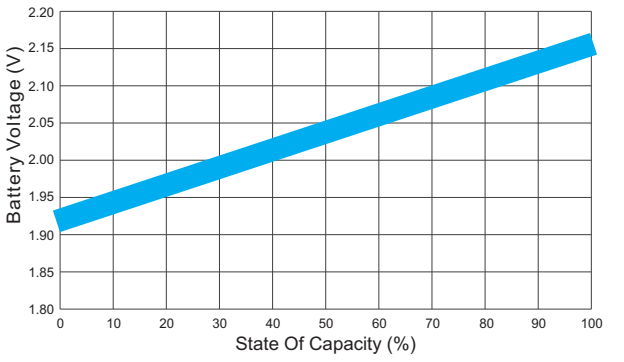
Storage Characteristics



Effect of Temperature on Long Term Life



Relationship of OCV And State of Charge(20℃)



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