

OPzV2-2000(2V2000Ah)



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.

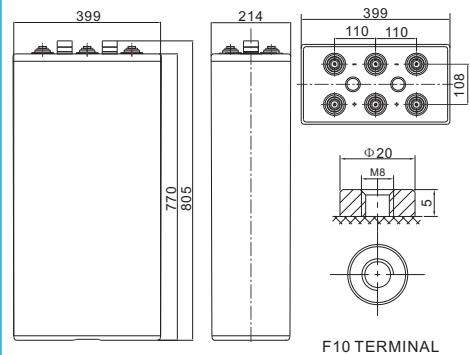


Specification

Cells Per Unit	1
Voltage Per Unit	2
Nominal Capacity	2000Ah@10hr-rate to 1.80V per cell @25°C
Weight	Approx. 150.0 Kg (Tolerance ± 1%)
Internal Resistance	Approx. 0.40 mΩ
Terminal	F10(M8)
Max. Discharge Current	7000A (5 sec)
Design Life	20 years (floating charge)
Maximum Charging Current	400.0 A
Reference Capacity	C3 1513.2AH C5 1700.0AH C10 2000.0AH C20 2142.0AH
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 charged batteries before using.
Container Material	A.B.S. UL94-HB, UL94-V0 Optional.

Dimensions

Unit: mm



Length	399±2mm (15.7 inches)
Width	214±2mm (8.43 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	984.0	780.0	550.0	417.2	342.0	295.6	266.0	207.6	178.0	93.5
1.87	1100	860.0	590.0	442.4	361.0	310.8	282.0	217.3	186.0	97.7
1.83	1260	960.0	640.0	471.4	380.0	324.4	292.0	227.0	194.0	101.9
1.80	1400	1040	664.0	485.0	387.6	332.0	300.0	232.8	200.0	105.0
1.75	1560	1114	694.0	504.4	394.0	340.0	306.0	236.7	204.0	107.1
1.70	1720	1150	714.0	514.2	400.9	344.0	310.0	238.6	206.0	108.2
1.65	1774	1222	738.0	528.0	406.6	348.0	314.0	240.6	208.0	109.2
1.60	1850	1264	766.0	550.0	418.0	354.0	318.0	242.5	210.0	110.3

Constant Power Discharge Characteristics : WPC(25°C)

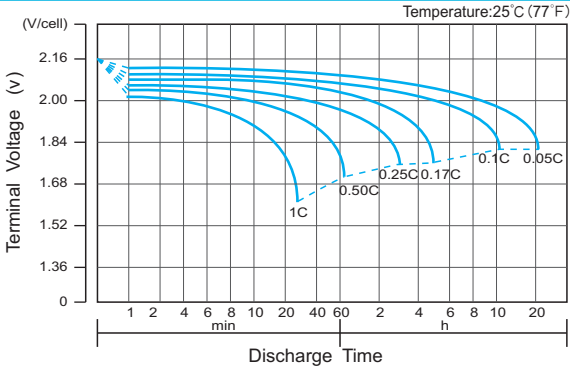
F.V/ Time	30min	1h	2h	3h	4h	5h	6h	8h	10h	20h
1.90	1883	1497	1063	808.0	669.3	582.0	526.0	415.2	362.8	190.5
1.87	2072	1626	1128	846.2	705.5	610.0	556.0	432.6	378.3	198.6
1.83	2322	1773	1200	890.4	739.7	634.0	574.0	448.1	391.9	205.7
1.80	2537	1891	1240	910.6	753.8	648.0	588.0	457.8	401.6	210.8
1.75	2752	1976	1280	938.6	763.8	664.0	598.0	463.7	407.4	213.9
1.70	2951	1996	1313	954.8	775.9	670.0	604.0	467.5	411.3	215.9
1.65	3001	2084	1349	974.8	785.9	676.0	610.0	471.4	413.2	216.9
1.60	3037	2149	1381	1007	806.0	682.0	614.0	473.4	415.2	218.0

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

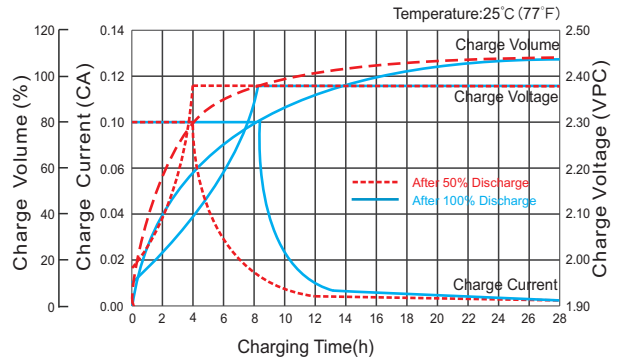
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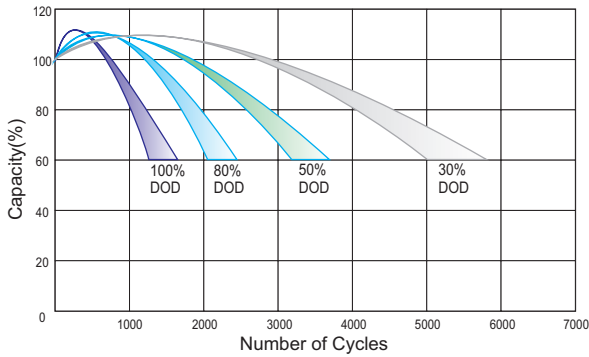
Discharge Characteristics Curve



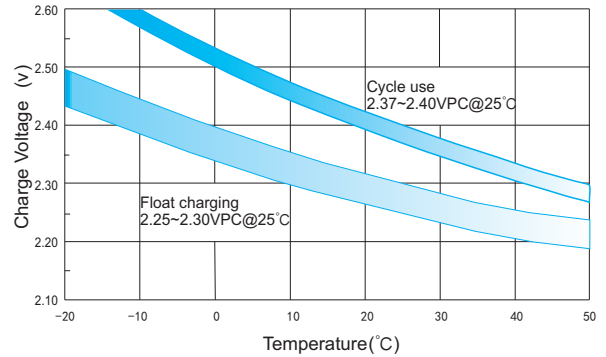
Charge Characteristic Curve for Cycle Use(IU)



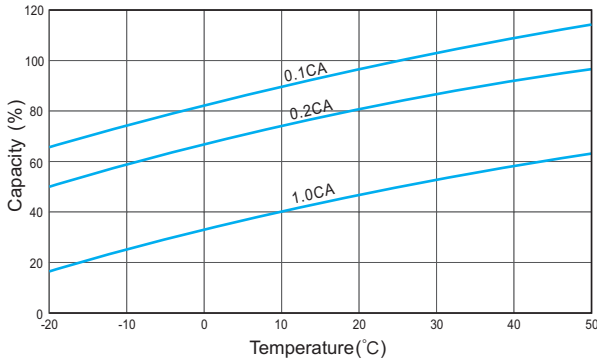
Cycle Life in Relation to Depth of Discharge



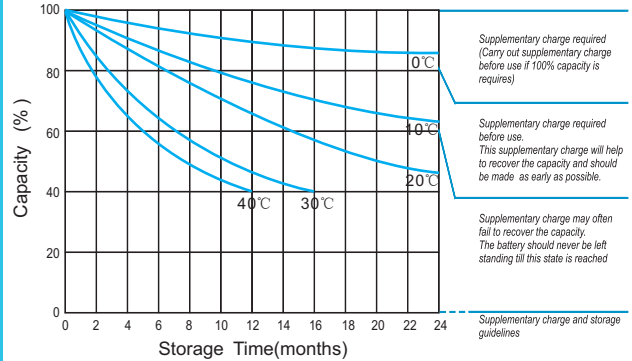
Relationship Between Charging Voltage and Temperature



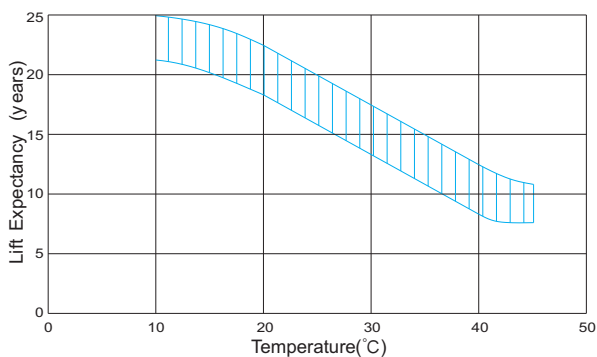
Temperature Effects on Capacity



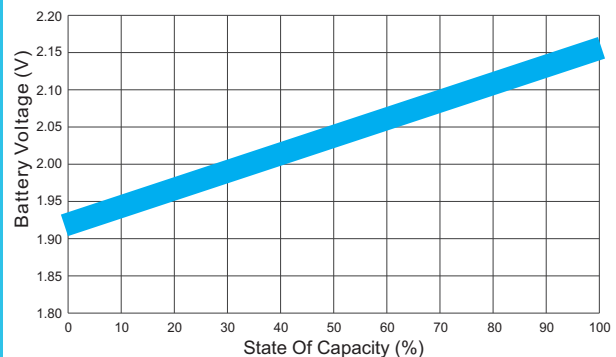
Storage Characteristics



Effect of Temperature on Long Term Life



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



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