

OPzV2-770(2V770Ah)



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.

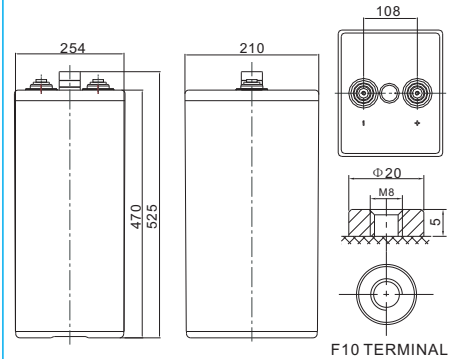


Specification

Cells Per Unit	1
Voltage Per Unit	2
Nominal Capacity	770Ah@10hr-rate to 1.80V per cell @25°C
Weight	Approx. 56.0 Kg (Tolerance± 1.5%)
Internal Resistance	Approx. 0.55 mΩ
Terminal	F10(M8)
Max. Discharge Current	3000A (5 sec)
Design Life	20 years (floating charge)
Maximum Charging Current	154.0 A
Reference Capacity	C24 850AH C48 951AH C72 956AH C100 970AH C120 987AH C240 1006AH
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	210±1mm (8.27 inches)
Width	254±1mm (10.0 inches)
Height	470±1mm (18.5 inches)
Total Height	525±1mm (20.7 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
1.90V	378.8	300.3	211.8	160.6	131.7	113.8	102.4	79.92	68.53	35.98
1.87V	423.5	331.1	227.2	170.3	139.0	119.7	108.6	83.65	71.61	37.60
1.83V	485.1	369.6	246.4	181.5	146.3	124.9	112.4	87.39	74.69	39.21
1.80V	539.0	400.4	255.6	186.7	149.2	127.8	115.5	89.63	77.00	40.43
1.75V	600.6	428.9	267.2	194.2	151.7	130.9	117.8	91.12	78.54	41.23
1.70V	662.2	442.8	274.9	198.0	154.3	132.4	119.4	91.87	79.31	41.64
1.65V	683.0	470.5	284.1	203.3	156.5	134.0	120.9	92.62	80.08	42.04
1.60V	712.3	486.6	294.9	211.8	160.9	136.3	122.4	93.36	80.85	42.45

Constant Power Discharge Characteristics : WPC(25°C)

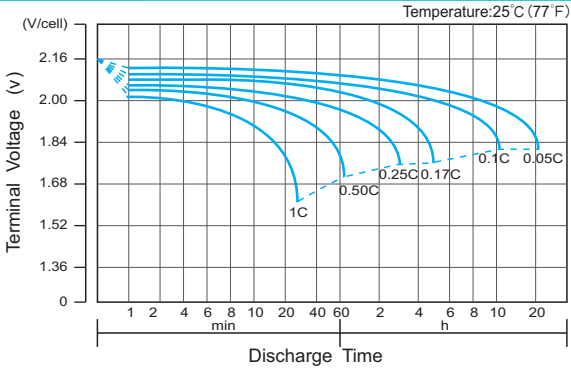
F.V/ Time	30min	1h	2h	3h	4h	5h	6h	8h	10h	20h
1.90V	725.1	576.5	409.4	311.1	257.7	224.1	202.5	159.8	139.7	73.33
1.87V	797.8	626.0	434.1	325.8	271.6	234.9	214.1	166.6	145.6	76.46
1.83V	893.8	682.5	462.0	342.8	284.8	244.1	221.0	172.5	150.9	79.21
1.80V	976.6	728.2	477.5	350.6	290.2	249.5	226.4	176.3	154.6	81.17
1.75V	1059	760.7	492.9	361.4	294.1	255.6	230.2	178.5	156.8	82.35
1.70V	1136	768.4	505.3	367.6	298.7	258.0	232.5	180.0	158.3	83.13
1.65V	1155	802.5	519.3	375.3	302.6	260.3	234.9	181.5	159.1	83.52
1.60V	1169	827.2	531.6	387.7	310.3	262.6	236.4	182.2	159.8	83.91

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

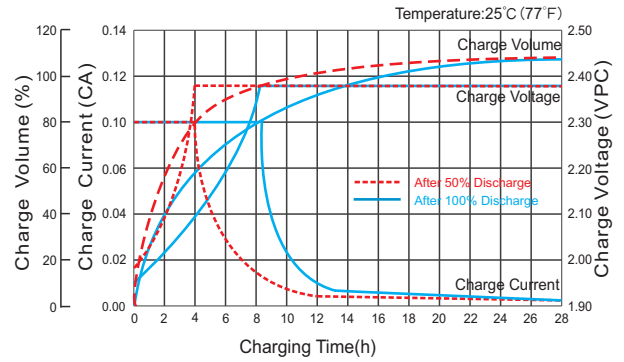
OPzV2-770(2V770Ah)



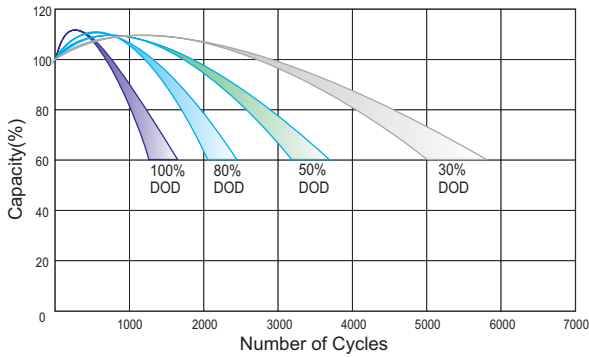
Discharge Characteristics Curve



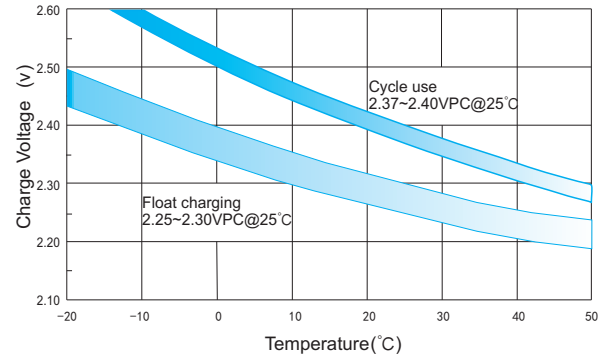
Charge Characteristic Curve for Cycle Use(IU)



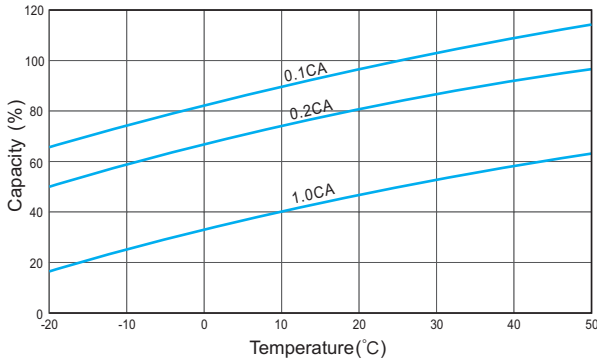
Cycle Life in Relation to Depth of Discharge



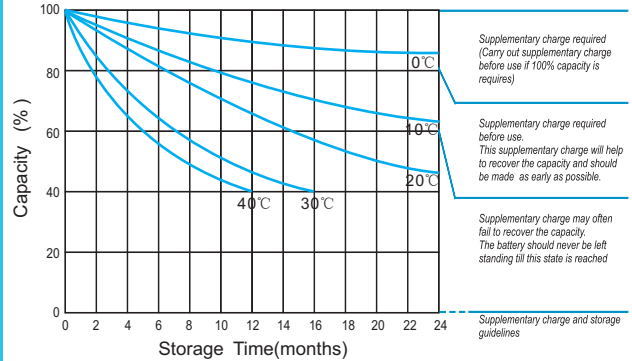
Relationship Between Charging Voltage and Temperature



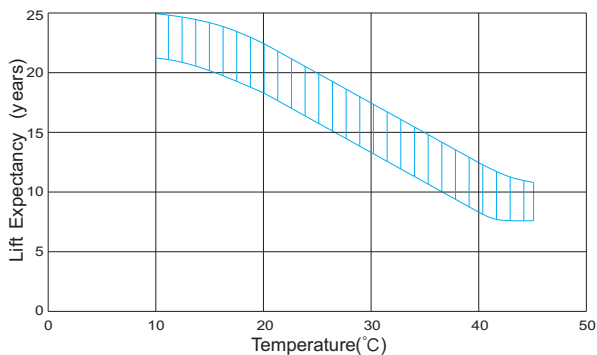
Temperature Effects on Capacity



Storage Characteristics



Effect of Temperature on Long Term Life



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

