OPzS2-250(2V250Ah)

RITAR®

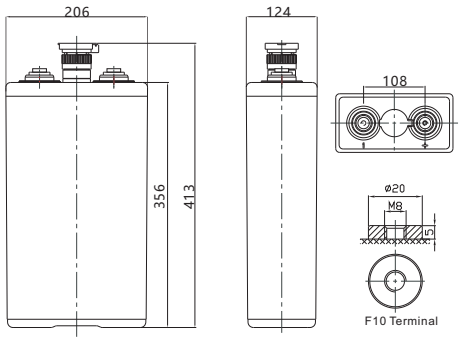
Ritar OPzS series is flooded Lead Acid battery that adopts Tubular Plate technology to offer high reliability and performance. The Battery is designed and manufactured according to standards and with DIN40736-2/IEC60896-11 positive spine and patent formula of die-casting active material. OPzS series exceeds standard values with more DIN40736-2/IEC60896-11 than 20 years floating design even more suitable for life at 25℃ and is cyclic use(PV/solar, traction etc) under extreme operating conditions.

Specification

Cells Per Unit	1
Voltage Per Unit	2
Nominal Capacity	250Ah@10hr-rate to 1.85V per cell @25℃
Weight	Without Electrolyte 15.8 kg/With Electrolyte 21.1kg
Internal Resistance	Approx. 0.76 mΩ
Terminal	F10(M8)
Max. Discharge Current	1200A (5 sec)
Design Life	20 years (floating charge)
Maximum Charging Current	37.5 A
Reference Capacity	C24 299.3AH C48 336.7AH C72 353.5AH C100 361.6AH C120 368.8AH C240 375.0AH
Float Charging Voltage	2.23 V~2.25 V @ 25℃ Temperature Compensation: -3mV/℃/Cell
Cycle Use Voltage	2.40 V~2.45 V @ 25℃ Temperature Compensation: -4mV/℃/Cell
Operating Temperature Range	Discharge: -15℃~50℃ Charge: 0℃~40℃ Storage: -15℃~50℃
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 3.5% at 25℃.Please charged batteries before using.
Container Material	A.B.S. UL94-HB, UL94-V0 Optional.

Dimensions

Unit: mm



Length	124±1mm (4.88 inches)
Width	206±1mm (8.11 inches)
Height	356±1mm (14.0 inches)
Total Height	413±1mm (16.3 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
1.90V	133.0	105.4	74.35	56.67	44.89	39.90	34.91	27.24	23.36	13.44
1.87V	148.7	116.3	79.76	60.33	47.38	42.20	37.01	28.52	24.41	14.04
1.83V	170.3	129.8	86.52	64.53	49.88	44.10	38.33	29.79	25.46	14.64
1.80V	189.3	140.6	89.76	66.43	50.87	45.12	39.38	30.56	26.25	15.09
1.75V	210.9	150.6	93.82	68.56	51.71	45.94	40.16	31.06	26.78	15.39
1.70V	232.5	155.5	96.52	70.18	52.62	46.65	40.69	31.32	27.04	15.55
1.65V	239.8	165.2	99.77	71.93	53.37	47.29	41.21	31.57	27.30	15.70
1.60V	250.1	170.9	103.6	74.34	54.86	48.30	41.74	31.83	27.56	15.85

Constant Power Discharge Characteristics : WPC(25℃)

F.V/ Time	30min	1h	2h	3h	4h	5h	6h	8h	10h	20h
1.90V	254.6	202.4	143.7	110.2	87.85	78.43	69.04	54.49	47.61	27.38
1.87V	280.2	219.8	152.4	116.5	92.60	82.79	72.98	56.78	49.65	28.55
1.83V	313.8	239.7	162.2	123.1	97.08	86.21	75.34	58.82	51.43	29.57
1.80V	342.9	255.7	167.7	126.4	98.93	88.07	77.18	60.09	52.71	30.31
1.75V	372.0	267.1	173.1	129.4	100.2	89.36	78.49	60.86	53.47	30.74
1.70V	398.9	269.8	177.4	132.1	101.8	90.57	79.28	61.36	53.98	31.04
1.65V	405.7	281.8	182.3	134.8	103.2	91.57	80.06	61.87	54.24	31.19
1.60V	410.6	290.5	186.7	138.1	105.8	93.21	80.59	62.13	54.49	31.33

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

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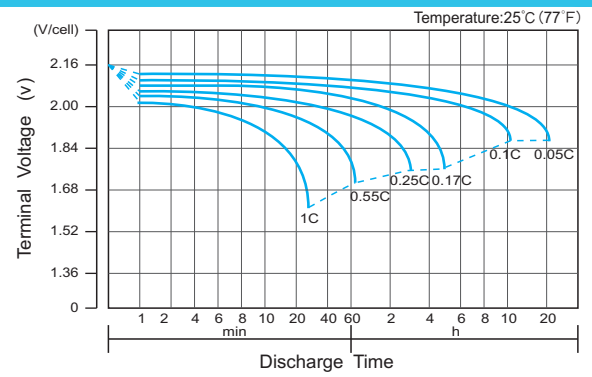
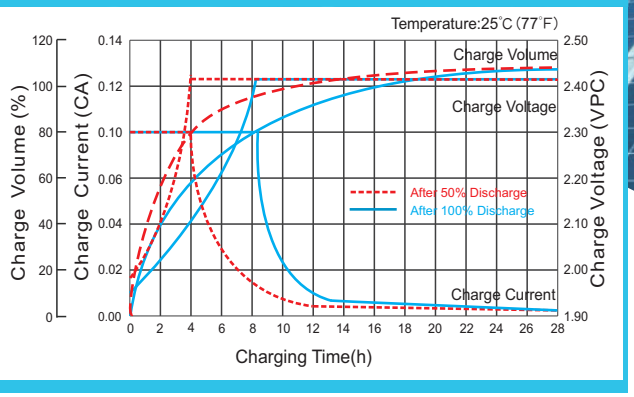
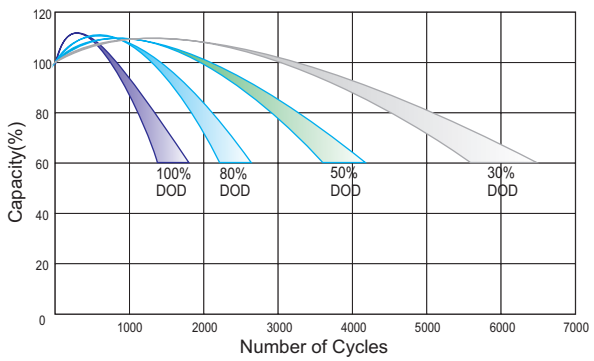
Discharge Characteristics Curve



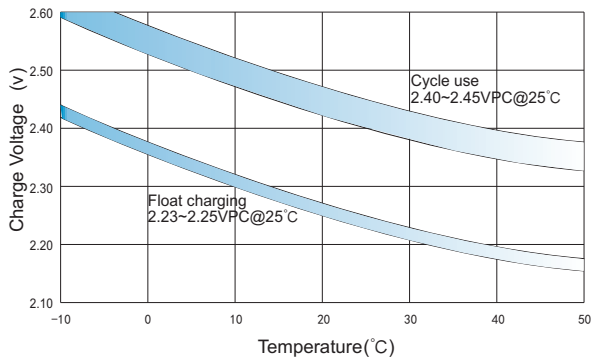
Charge Characteristic Curve for Cycle Use(IU)



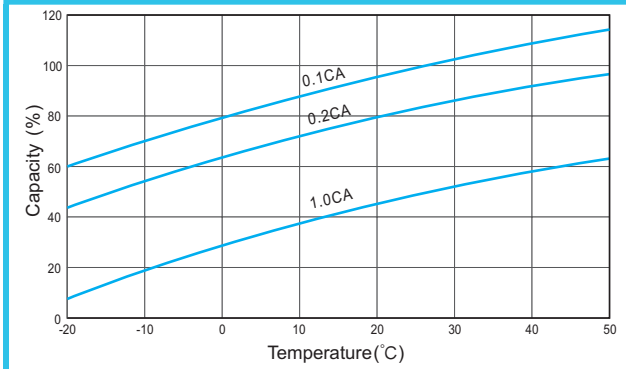
Cycle Life in Relation to Depth of Discharge



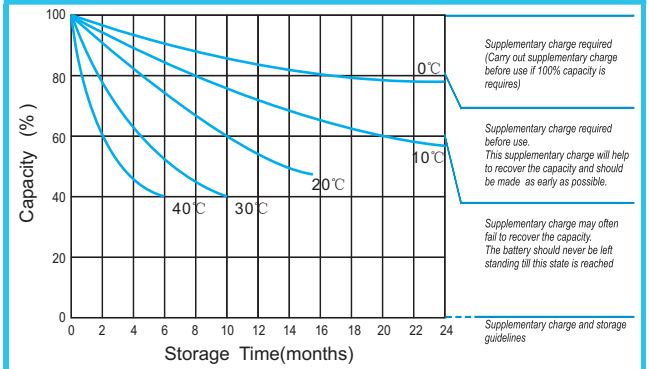
Relationship Between Charging Voltage and Temperature



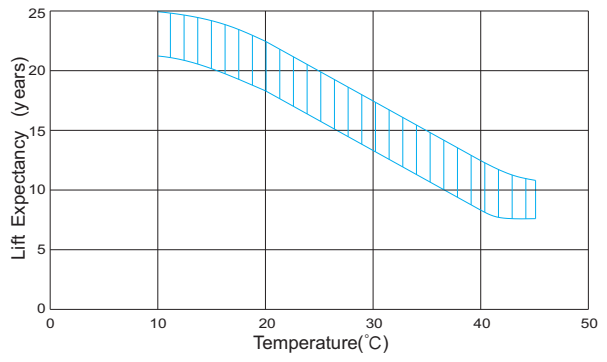
Temperature Effects on Capacity



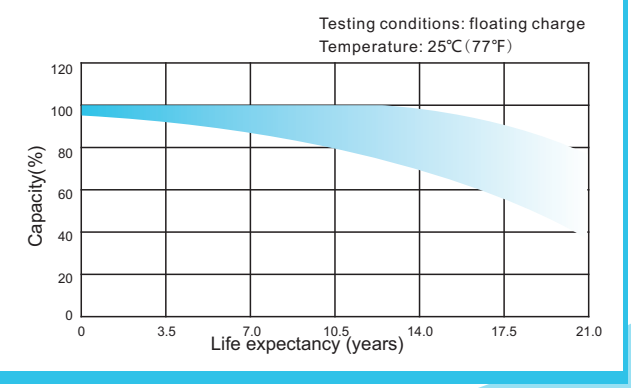
Storage Characteristics



Effect of Temperature on Long Term Life



Life Characteristics Of Standby Use



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