

OPzS2-150(2V150Ah)



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°C and is cyclic use(PV/solar, traction etc) under extreme operating conditions.

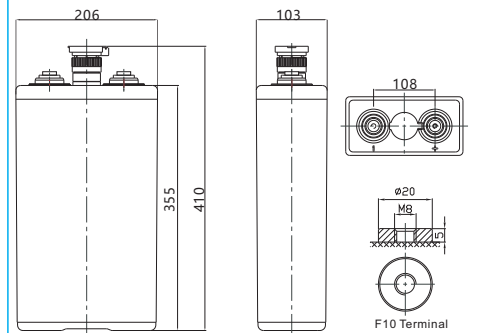
Specification

Cells Per Unit	1
Voltage Per Unit	2
Nominal Capacity	150Ah@10hr-rate to 1.85V per cell @25°C
Weight	Without Electrolyte 11.4 kg/With Electrolyte 15.7kg
Internal Resistance	Approx. 0.95 mΩ
Terminal	F10(M8)
Max. Discharge Current	750A (5 sec)
Design Life	20 years (floating charge)
Maximum Charging Current	22.5 A
Reference Capacity	C24 179.6AH C48 202.0AH C72 212.1AH C100 217.0AH C120 221.3AH C240 225.0AH
Float Charging Voltage	2.23 V~2.25 V @ 25°C Temperature Compensation: -3mV/°C/Cell
Cycle Use Voltage	2.40 V~2.45 V @ 25°C Temperature Compensation: -4mV/°C/Cell
Operating Temperature Range	Discharge: -15°C~50°C Charge: 0°C~40°C Storage: -15°C~50°C
Normal Operating Temperature Range	25°C±5°C
Self Discharge	OPzS series is flooded Lead Acid battery .It can be stored for up to 6 months at 25°C and then recharging is recommended. Monthly Self-discharge ratio is less than 3.5% at 25°C .Please charged batteries before using.
Container Material	A.B.S. UL94-HB, UL94-V0 Optional.



Dimensions

Unit: mm



Length	103±2mm (4.01 inches)
Width	206±2mm (8.11 inches)
Height	355±2mm (14.0 inches)
Total Height	410±2mm (16.1 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	79.81	63.27	44.61	34.00	26.93	23.94	20.95	16.35	14.02	8.061
1.87V	89.22	69.76	47.86	36.20	28.43	25.32	22.21	17.11	14.65	8.421
1.83V	102.2	77.87	51.91	38.72	29.93	26.46	23.00	17.87	15.28	8.786
1.80V	113.6	84.36	53.86	39.86	30.52	27.07	23.63	18.33	15.75	9.056
1.75V	126.5	90.36	56.29	41.13	31.03	27.56	24.10	18.64	16.07	9.236
1.70V	139.5	93.28	57.91	42.11	31.57	27.99	24.41	18.79	16.22	9.330
1.65V	143.9	99.12	59.86	43.16	32.02	28.38	24.73	18.94	16.38	9.420
1.60V	150.1	102.5	62.13	44.60	32.92	28.98	25.04	19.10	16.54	9.510

Constant Power Discharge Characteristics : WPC(25°C)

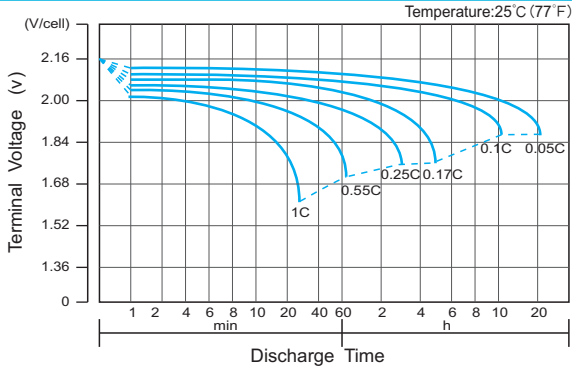
F.V/ Time	30min	1h	2h	3h	4h	5h	6h	8h	10h	20h
1.90V	152.8	121.5	86.25	66.12	52.71	47.06	41.42	32.69	28.57	16.43
1.87V	168.1	131.9	91.46	69.92	55.56	49.67	43.79	34.07	29.79	17.13
1.83V	188.3	143.8	97.33	73.88	58.25	51.73	45.20	35.29	30.86	17.74
1.80V	205.8	153.4	100.6	75.85	59.36	52.84	46.31	36.05	31.62	18.18
1.75V	223.2	160.3	103.9	77.63	60.15	53.61	47.09	36.51	32.08	18.45
1.70V	239.3	161.9	106.5	79.24	61.10	54.34	47.57	36.82	32.39	18.62
1.65V	243.4	169.1	109.4	80.89	61.89	54.94	48.04	37.12	32.54	18.71
1.60V	246.3	174.3	112.0	82.89	63.47	55.93	48.35	37.28	32.69	18.80

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

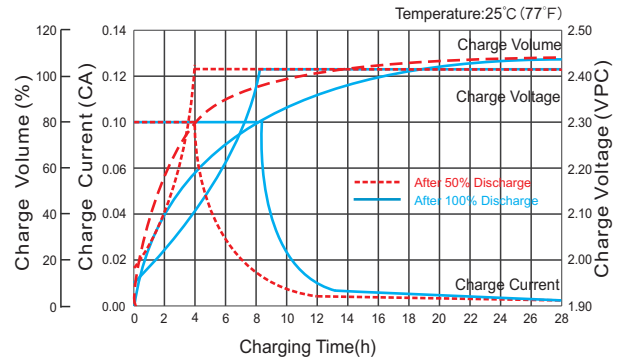
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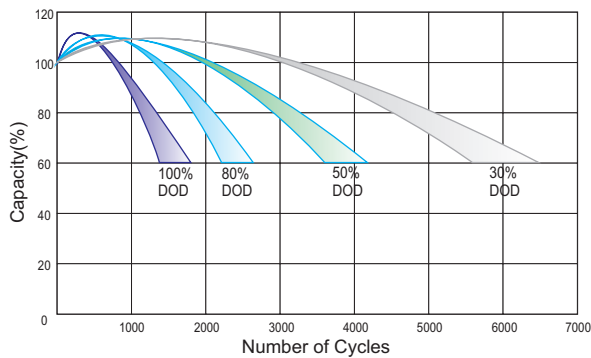
Discharge Characteristics Curve



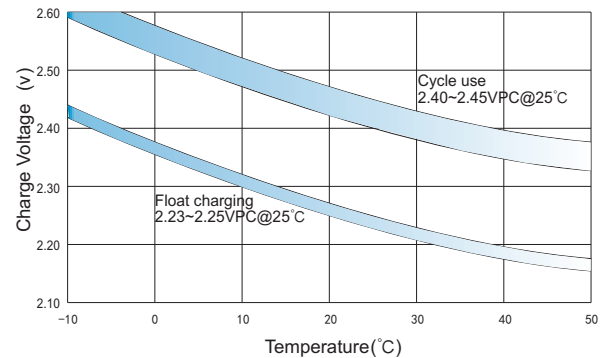
Charge Characteristic Curve for Cycle Use(IU)



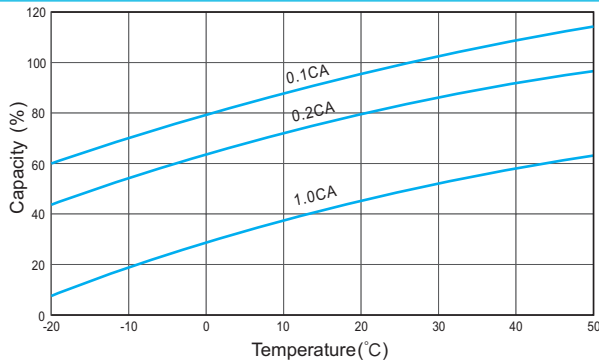
Cycle Life in Relation to Depth of Discharge



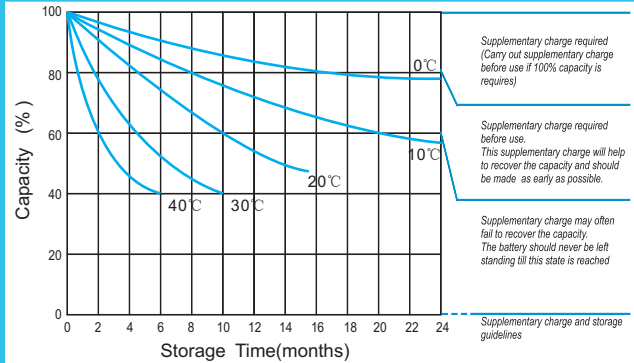
Relationship Between Charging Voltage and Temperature



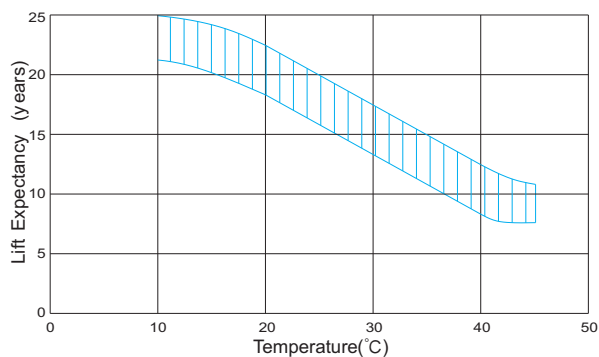
Temperature Effects on Capacity



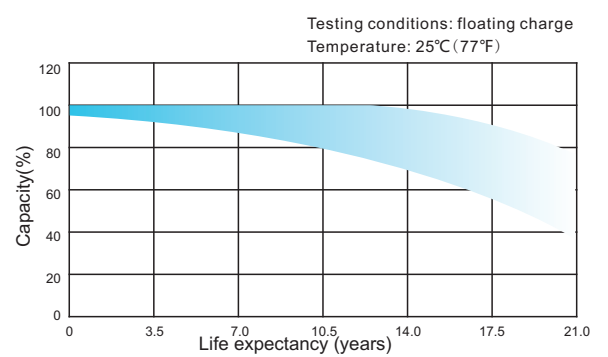
Storage Characteristics



Effect of Temperature on Long Term Life



Life Characteristics Of Standby Use



(Note) All above information shall be changed without prior notice, Ritar reserves the right to explain and update the latest information.