

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.

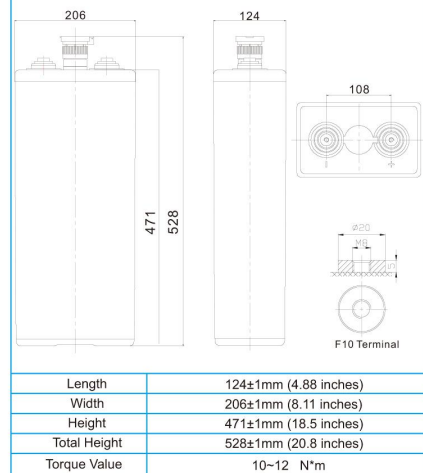


Specification

Cells Per Unit	1
Voltage Per Unit	2
Nominal Capacity	350Ah@10hr-rate to 1.85V per cell @25°C
Weight	Without Electrolyte 20.5kg/With Electrolyte 26.7kg
Internal Resistance	Approx. 0.65 mΩ
Terminal	F10(M8)
Max. Discharge Current	1600A (5 sec)
Design Life	20 years (floating charge)
Maximum Charging Current	52.50 A
Reference Capacity	C24 419.0AH C48 437.5AH C72 455.0AH C100 472.5AH C120 490.0AH C240 507.5AH
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	GERCH 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 3.5% at 25°C. Please charged batteries before using.
Container Material	A.B.S. UL94-HB, UL94-V0 Optional.

Dimensions

Unit: mm



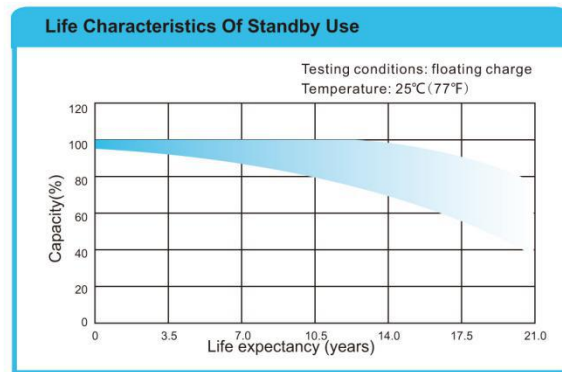
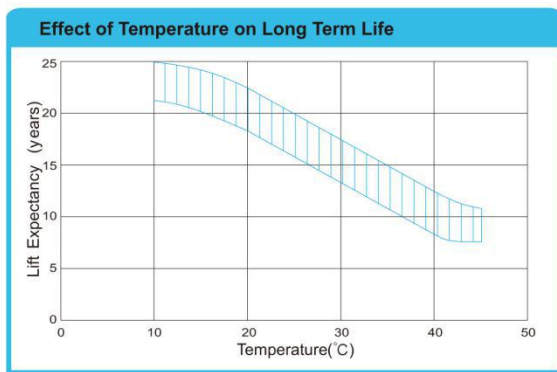
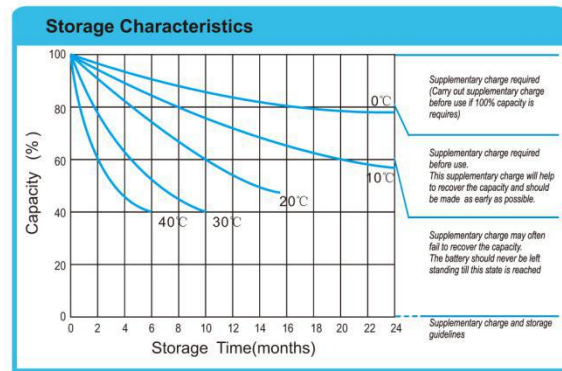
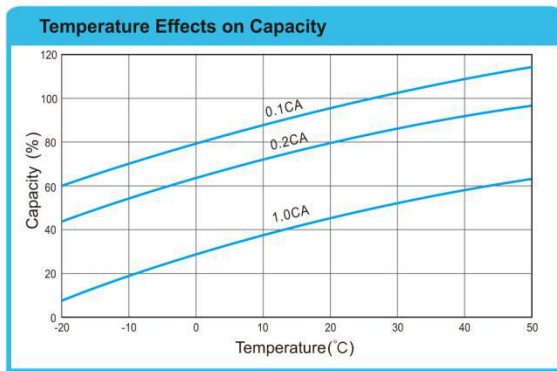
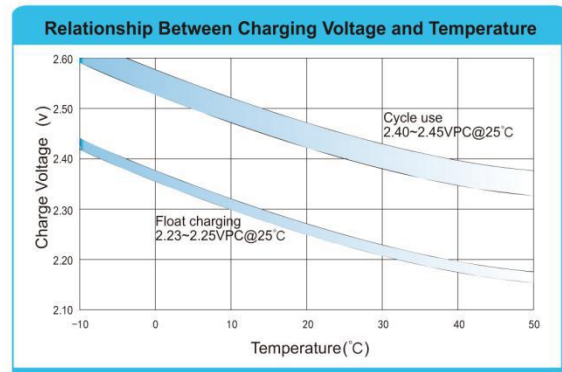
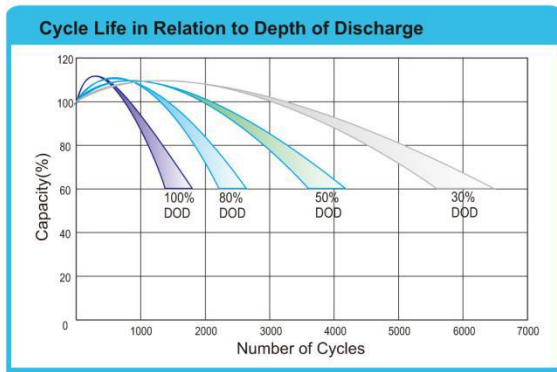
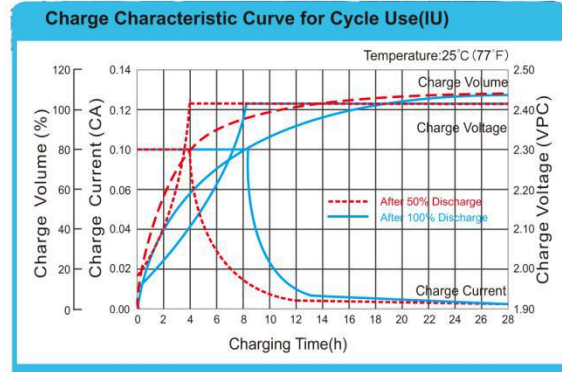
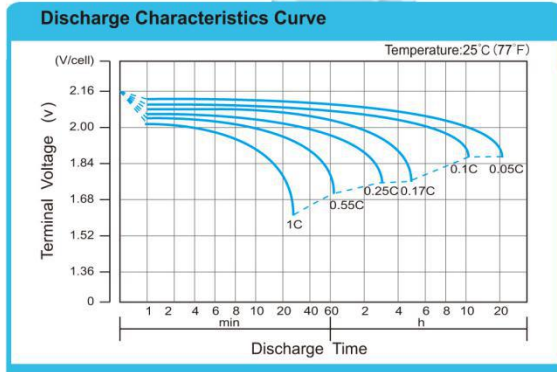
Constant Current Discharge Characteristics : A(25°C)

F.V/ Time	30min	1h	2h	3h	4h	5h	6h	8h	10h	20h
1.90V	186.2	147.6	104.1	79.34	62.84	55.86	48.88	38.14	32.71	18.81
1.87V	208.2	162.8	111.7	84.47	66.33	59.08	51.82	39.93	34.18	19.65
1.83V	238.5	181.7	121.1	90.35	69.83	61.74	53.66	41.71	35.65	20.50
1.80V	265.0	196.8	125.7	93.00	71.22	63.17	55.13	42.78	36.75	21.13
1.75V	295.2	210.8	131.3	95.98	72.40	64.31	56.23	43.49	37.49	21.55
1.70V	325.5	217.7	135.1	98.25	73.67	65.31	56.96	43.85	37.85	21.77
1.65V	335.8	231.3	139.7	100.7	74.71	66.21	57.70	44.20	38.22	21.98
1.60V	350.1	239.2	145.0	104.1	76.81	67.62	58.43	44.56	38.59	22.19

Constant Power Discharge Characteristics : WPC(25°C)

F.V/ Time	30min	1h	2h	3h	4h	5h	6h	8h	10h	20h
1.90V	356.5	283.4	201.2	154.3	123.0	109.8	96.65	76.29	66.66	38.33
1.87V	392.2	307.8	213.4	163.1	129.6	115.9	102.2	79.49	69.51	39.97
1.83V	439.4	335.5	227.1	172.4	135.9	120.7	105.5	82.35	72.01	41.40
1.80V	480.1	358.0	234.7	177.0	138.5	123.3	108.0	84.13	73.79	42.43
1.75V	520.8	374.0	242.3	181.1	140.3	125.1	109.9	85.20	74.86	43.04
1.70V	558.5	377.8	248.4	184.9	142.6	126.8	111.0	85.91	75.57	43.45
1.65V	568.0	394.5	255.3	188.8	144.4	128.2	112.1	86.62	75.93	43.66
1.60V	574.8	406.7	261.3	193.4	148.1	130.5	112.8	86.98	76.29	43.86

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



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