

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.

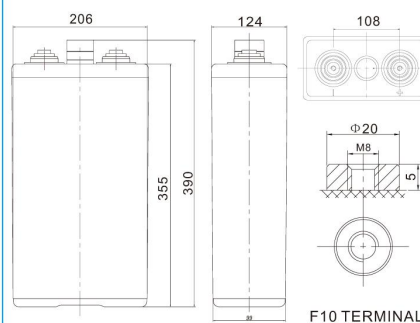


### Specification

<b>Cells Per Unit</b>	1
<b>Voltage Per Unit</b>	2
<b>Nominal Capacity</b>	250Ah@10hr-rate to 1.80V per cell @25°C
<b>Weight</b>	Approx. 20.5 Kg (Tolerance ±2%)
<b>Internal Resistance</b>	Approx. 0.90 mΩ
<b>Terminal</b>	F10(M8)
<b>Max. Discharge Current</b>	1200A (5 sec)
<b>Design Life</b>	20 years (floating charge)
<b>Maximum Charging Current</b>	50.0 A
<b>Reference Capacity</b>	C24 281AH C48 312AH C72 315AH C100 324AH C120 328AH C240 334AH
<b>Float Charging Voltage</b>	2.25 V~2.30 V @ 25°C Temperature Compensation: -3mV/°C/Cell
<b>Cycle Use Voltage</b>	2.37 V~2.40 V @ 25°C Temperature Compensation: -4mV/°C/Cell
<b>Operating Temperature Range</b>	Discharge: -40°C~60°C Charge: -20°C~50°C Storage: -40°C~60°C
<b>Normal Operating Temperature Range</b>	25°C ±5°C
<b>Self Discharge</b>	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 2% at 25°C. Please charged batteries before using.
<b>Container Material</b>	A.B.S. UL94-HB, UL94-V0 Optional.

### Dimensions

Unit: mm



Length	124±1mm (4.88 inches)
Width	206±1mm (8.11 inches)
Height	355±1mm (14.0 inches)
Total Height	390±1mm (15.4 inches)
Torque Value	10~12 N*m

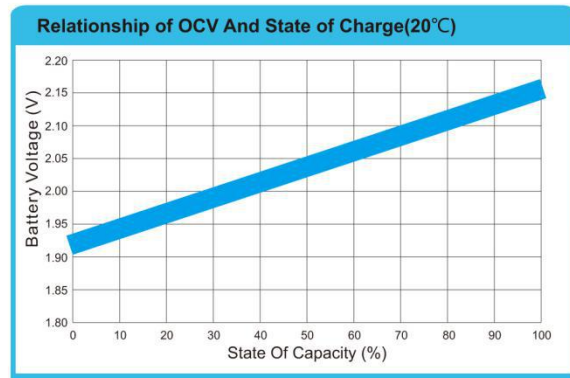
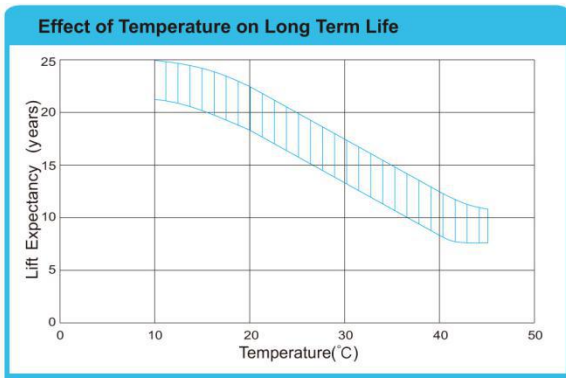
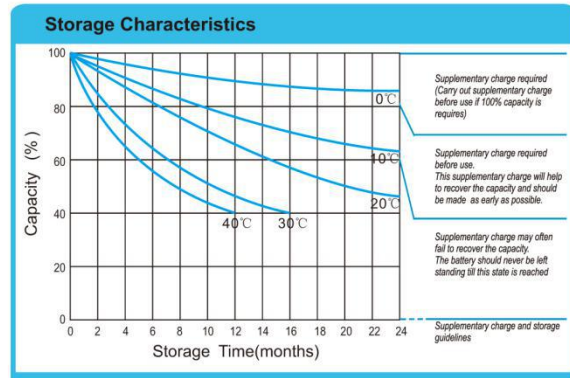
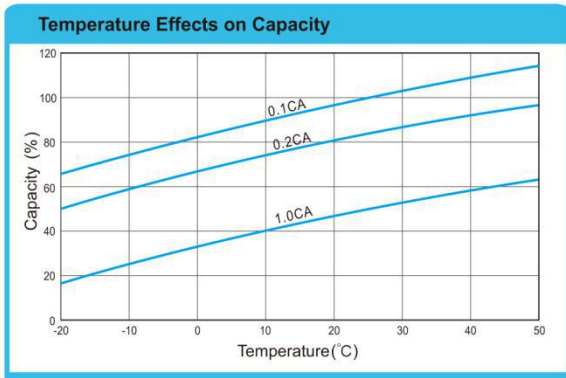
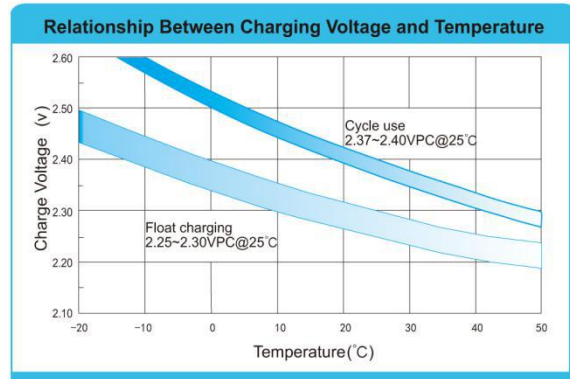
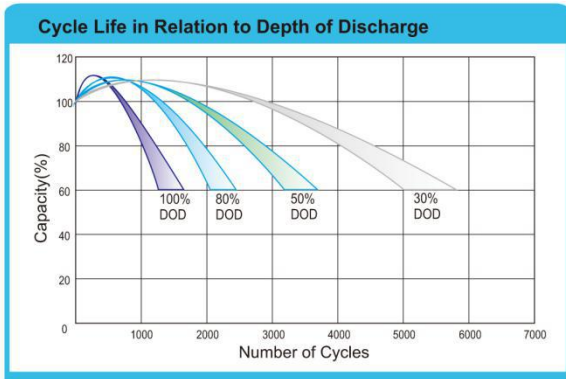
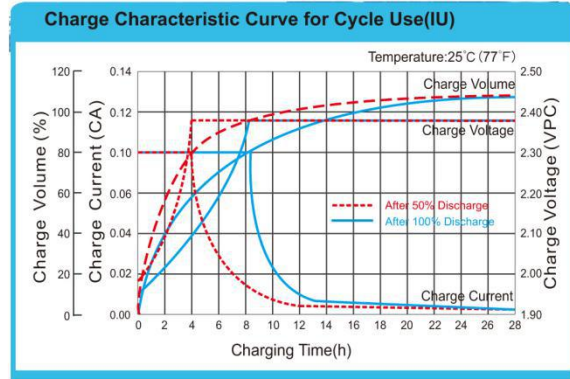
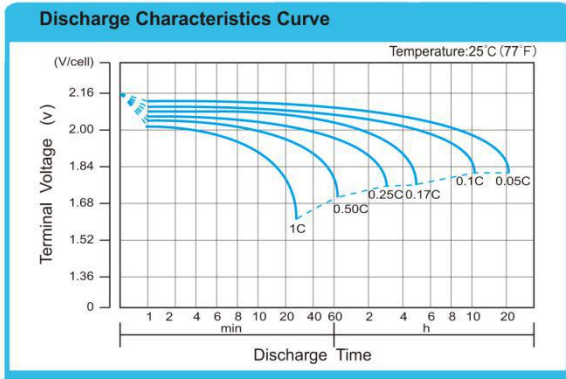
### Constant Current Discharge Characteristics : A(25°C)

F.V/ Time	30min	1h	2h	3h	4h	5h	6h	8h	10h	20h
1.90V	123.0	97.50	68.75	52.15	42.75	36.95	33.25	25.95	22.25	11.68
1.87V	137.5	107.5	73.75	55.30	45.13	38.85	35.25	27.16	23.25	12.21
1.83V	157.5	120.0	80.00	58.93	47.50	40.55	36.50	28.37	24.25	12.73
1.80V	175.0	130.0	83.00	60.63	48.45	41.50	37.50	29.10	25.00	13.13
1.75V	195.0	139.3	86.75	63.05	49.25	42.50	38.25	29.59	25.50	13.39
1.70V	215.0	143.8	89.25	64.28	50.11	43.00	38.75	29.83	25.75	13.52
1.65V	221.8	152.8	92.25	66.00	50.83	43.50	39.25	30.07	26.00	13.65
1.60V	231.3	158.0	95.75	68.75	52.25	44.25	39.75	30.31	26.25	13.78

### Constant Power Discharge Characteristics : WPC(25°C)

F.V/ Time	30min	1h	2h	3h	4h	5h	6h	8h	10h	20h
1.90V	235.4	187.2	132.9	101.0	83.67	72.75	65.75	51.90	45.35	23.81
1.87V	259.0	203.3	141.0	105.8	88.19	76.25	69.50	54.08	47.29	24.83
1.83V	290.2	221.6	150.0	111.3	92.46	79.25	71.75	56.02	48.99	25.72
1.80V	317.1	236.4	155.0	113.8	94.22	81.00	73.50	57.23	50.20	26.35
1.75V	344.0	247.0	160.0	117.3	95.48	83.00	74.75	57.96	50.93	26.74
1.70V	368.8	249.5	164.1	119.4	96.98	83.75	75.50	58.44	51.41	26.99
1.65V	375.1	260.5	168.6	121.9	98.24	84.50	76.25	58.93	51.65	27.12
1.60V	379.6	268.6	172.6	125.9	100.8	85.25	76.75	59.17	51.90	27.24

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



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