GERCH®

OPzV800 (2V800AH)

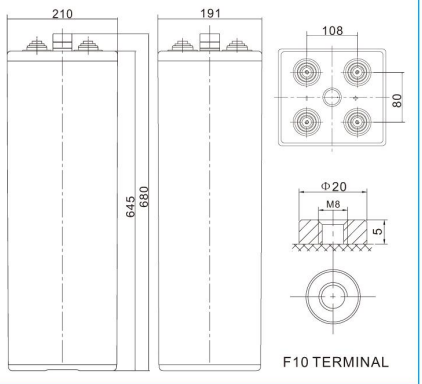
OPzV series is Valve Regulated Lead Acid battery that adopts immobilized GEL and Tubular Plate technology to offer high reliability and performance. The Battery is designed and manufactured according to DIN standards and with die-casting positive grid and patented formula of active material OPzV series exceeds DIN standard values with more than 20 years floating design life at 25 ℃ ,and It is the best solution for cyclic use under extreme operating conditions.

Specification

Cells Per Unit	1
Voltage Per Unit	2
Nominal Capacity	800Ah@10hr-rate to 1.80V per cell @25℃
Weight	Approx. 63.0 Kg (Tolerance±1.5%)
Internal Resistance	Approx. 0.50 mΩ
Terminal	F10(M8)
Max. Discharge Current	3500A (5 sec)
Design Life	20 years (floating charge)
Maximum Charging Current	160.0 A
Reference Capacity	C24 890AH C48 1000AH C72 1006AH C100 1020AH C120 1037AH C240 1055AH
Float Charging Voltage	2.25 V~2.30 V @ 25℃ Temperature Compensation: -3mV/℃/Cell
Cycle Use Voltage	2.37 V~2.40 V @ 25℃ Temperature Compensation: -4mV/℃/Cell
Operating Temperature Range	Discharge: -40℃~60℃ Charge: -20℃~50℃ Storage: -40℃~60℃
Normal Operating Temperature Range	25℃±5℃
Self Discharge	GERCH 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 2% at 25℃.Please charged batteries before using.
Container Material	A.B.S. UL94-HB, UL94-V0 Optional.

Dimensions

Unit: mm



Length	233±1mm (9.17 inches)
Width	210±1mm (8.27 inches)
Height	645±1mm (25.4 inches)
Total Height	680±1mm (26.8 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	393.6	312.0	220.0	166.9	136.8	118.2	106.4	83.03	71.20	37.38
1.87V	440.0	344.0	236.0	177.0	144.4	124.3	112.8	86.91	74.40	39.06
1.83V	504.0	384.0	256.0	188.6	152.0	129.8	116.8	90.79	77.60	40.74
1.80V	560.0	416.0	265.6	194.0	155.0	132.8	120.0	93.12	80.00	42.00
1.75V	624.0	445.6	277.6	201.8	157.6	136.0	122.4	94.67	81.60	42.84
1.70V	688.0	460.0	285.6	205.7	160.4	137.6	124.0	95.45	82.40	43.26
1.65V	709.6	488.8	295.2	211.2	162.6	139.2	125.6	96.22	83.20	43.68
1.60V	740.0	505.6	306.4	220.0	167.2	141.6	127.2	97.00	84.00	44.10

Constant Power Discharge Characteristics : WPC(25℃)

F.V/ Time	30min	1h	2h	3h	4h	5h	6h	8h	10h	20h
1.90V	753.3	599.0	425.3	323.2	267.7	232.8	210.4	166.1	145.1	76.18
1.87V	828.9	650.4	451.0	338.5	282.2	244.0	222.4	173.0	151.3	79.44
1.83V	928.6	709.1	480.0	356.2	295.9	253.6	229.6	179.3	156.8	82.29
1.80V	1015	756.6	496.1	364.2	301.5	259.2	235.2	183.1	160.6	84.33
1.75V	1101	790.3	512.1	375.4	305.5	265.6	239.2	185.5	163.0	85.55
1.70V	1180	798.4	525.0	381.9	310.3	268.0	241.6	187.0	164.5	86.37
1.65V	1200	833.7	539.5	389.9	314.4	270.4	244.0	188.6	165.3	86.78
1.60V	1215	859.5	552.3	402.8	322.4	272.8	245.6	189.3	166.1	87.18

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

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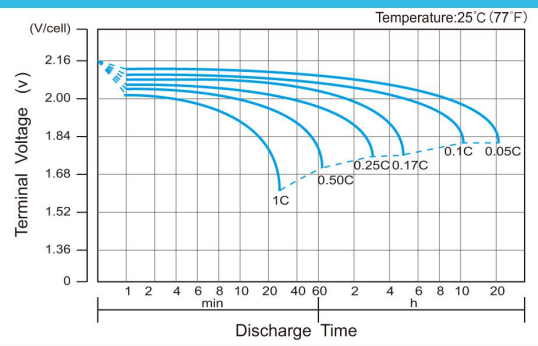
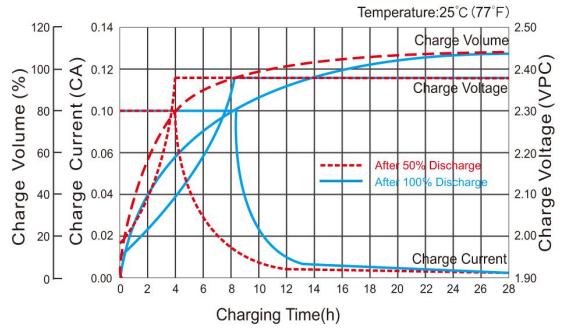
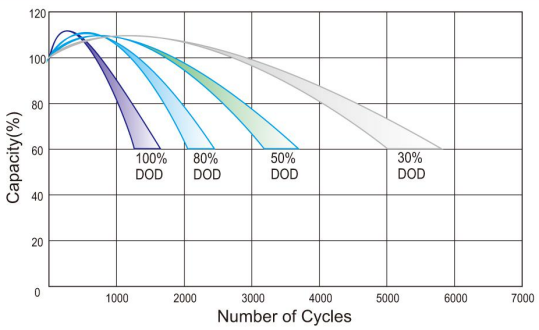
Discharge Characteristics Curve



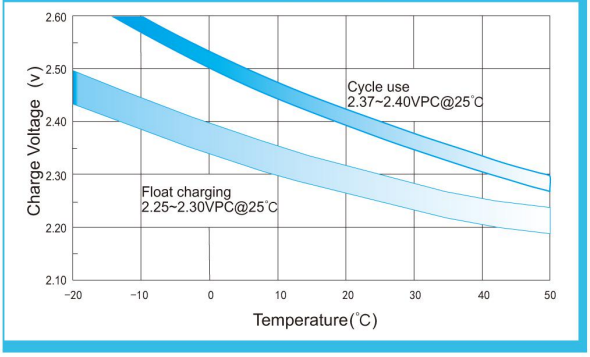
Charge Characteristic Curve for Cycle Use(IU)



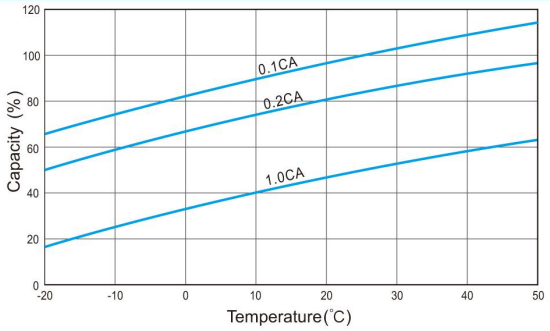
Cycle Life in Relation to Depth of Discharge



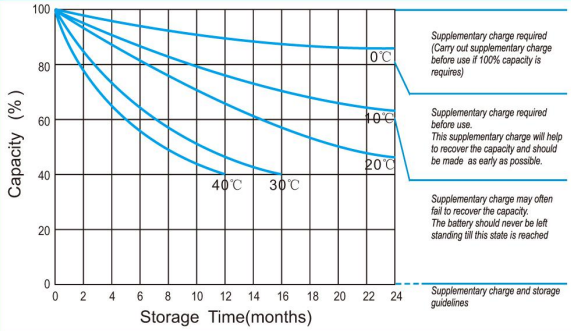
Relationship Between Charging Voltage and Temperature



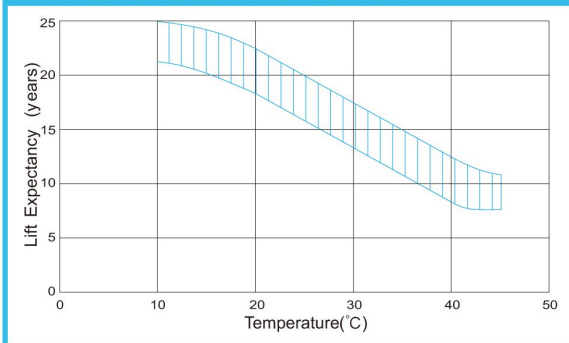
Temperature Effects on Capacity



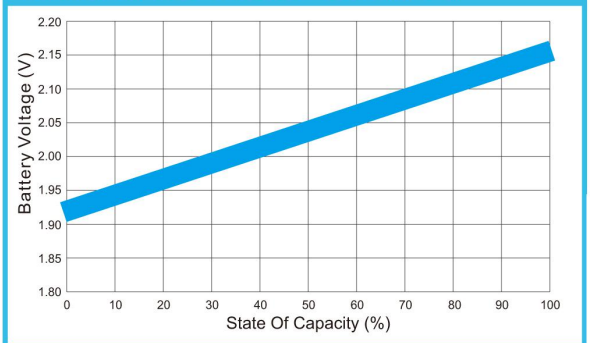
Storage Characteristics



Effect of Temperature on Long Term Life



Relationship of OCV And State of Charge(20℃)



Guangdong JiYi General Electric Co., Ltd

Oversea sales office Tel: +86-020-84869873 Fax: +86-020-34628335

Domestic sales office Tel: 020-34628335 Fax: 020-34628335

E-mail:ge@gerch.cn

GERCH®

HTTP：//WWW.GERCH.CN