epcom®
POWER LINE

PG22000(2V2000Ah)

2 V 2000 Ah | Tubular GEL | 20+ years design life

2V TUBULAR GEL SERIES VRLA BATTERY

OPzV range battery adopts traditional tubular gel technology , adopts patent gel electrolyte .The products are used as standby power for communication, power, military and broadcast and television system. They possess precise ABS heat seal technology between container and lid and patented post seal structure. Provide better deep cycle performance versus AGM The design float life is 18+ years .

Complied standards
- IEC 60896-21/22
- UL1989
- JIS C8704
- GB/T19639

Specifications

Battery Model	16OpzV2000
Nominal Voltage	2V
Rated Capacity	2000Ah (10hour rate) to 1.80V/cell @25℃（77℉）
Typical Weight	148kg
Internal Resistance	Approx 0.142m Ω
Operating Temperature Range	Operation (maximum)： -40℃~55℃（-40℉~131℉） Operation (recommended)： 15℃~25℃（59℉~77℉） Storage： -20℃~40℃（-4℉~104℉）
Float Voltage	2.23V/cell@25℃（77℉）
Charge Current	200A(Recommendation) 500A(Maxmum)
Equalize and Cycle Service	2.35V~2.40V/cell@25℃（77℉）
Self Discharge	The residual capacity is above 94% after 90 days storage(25℃/77℉)
Terminal	M8 Female Large Size Copper Post
Terminal Hardware Torque	15 ±1.0Nm
Container Material	ABS (V0optional)

Discharge Data with Constant Current Units: Amperes (25℃, 77℉)

End voltage	15min	30min	1h	2h	3h	4h	5h	6h	8h	10h	16h	24h	48h	100h
1.60V	2171	1734	1188	737	532	422	361	318	256	210	135.5	94.1	51.7	29.0
1.65V	2096	1677	1159	722	524	417	357	314	254	209	134.9	94.1	51.2	28.5
1.70V	1973	1608	1125	705	515	411	352	309	251	208	134.3	93.1	50.8	28.1
1.75V	1871	1548	1092	686	504	404	347	303	246	205	132.3	91.1	50.2	27.3
1.80V	1650	1416	1040	660	492	395	339	295	241	200	128.5	89.2	49.4	26.5
1.85V	1389	1191	967	626	476	383	328	285	234	196	126.5	86.2	47.0	25.6
1.90V	1049	1016	772	545	426	356	305	263	212	176	113.6	79.2	43.9	23.6

Discharge Data with Constant Power Units: Watts per cell (25 ℃, 77 ℉)

End voltage	15min	30min	1h	2h	3h	4h	5h	6h	8h	10h	16h	24h
1.60V	4343	3439	2633	1445	1099	873	733.6	635.0	527.1	442.8	285.9	193.8
1.65V	4135	3257	2449	1436	1091	867	728.6	630.5	523.5	439.8	283.9	192.5
1.70V	3947	3109	2294	1416	1076	855	718.5	622.0	516.3	433.7	280.0	189.9
1.75V	3736	2983	2158	1376	1049	822	693.0	610.2	507.9	425.7	274.8	187.1
1.80V	3495	2864	2036	1327	1020	802	661.3	579.0	480.0	403.9	260.7	177.2
1.85V	3270	2752	1894	1277	970	762	643.5	554.9	460.0	387.1	250.0	169.8
1.90V	3056	2511	1686	1158	937	742	622.6	503.2	417.0	351.1	226.7	154.0

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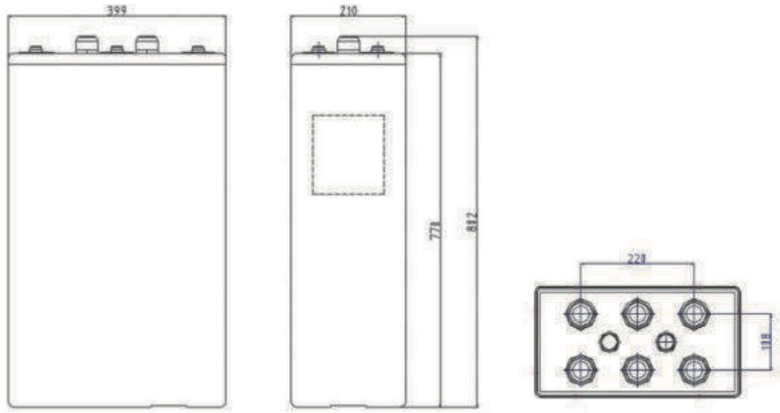
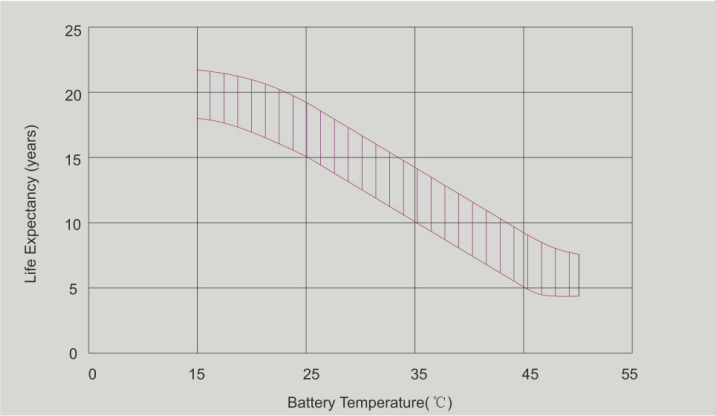
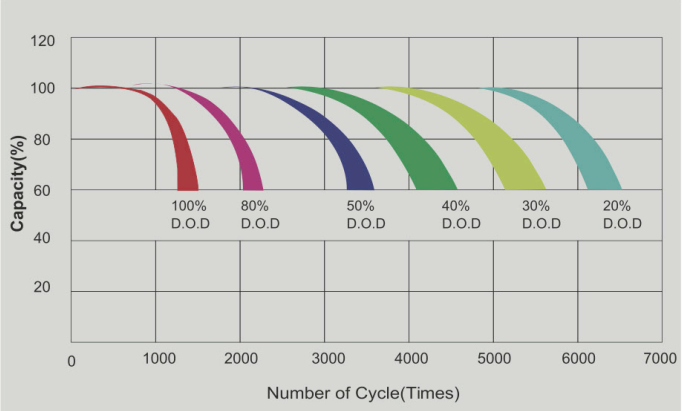
Dimensions-mm[inch]



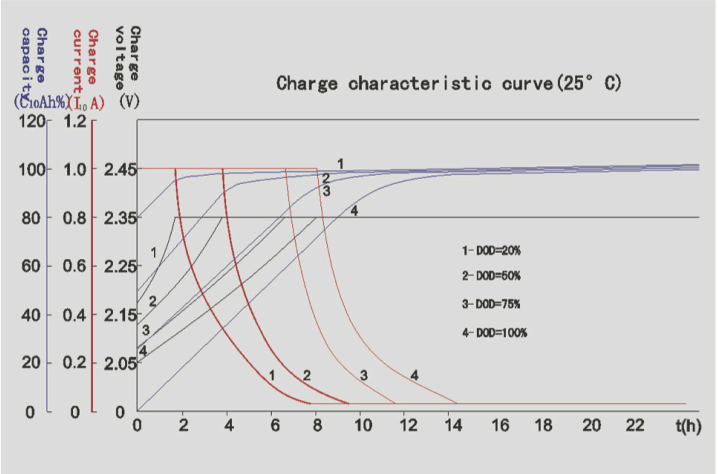
Effect of temperature on long term float life



Life characteristics of cyclic use



Charge characteristic Curve for cyclic use



Discharge characteristic Curve