



OPzV Series Tubular GEL Battery

OPzV350

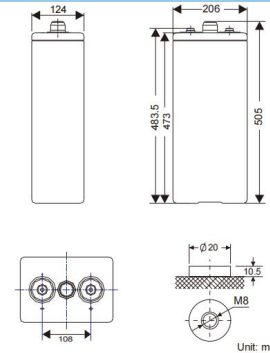
General Features

- ▶ 20 years design life
- ▶ adopt tubular plate with GEL technology
- ▶ Gas phase SiO₂ colloidal battery technology
- ▶ PVC-SiO₂ partition
- ▶ ABS material battery case
- ▶ Widely used in communication systems, military fields, power systems, broadcasting and television systems, etc



Specification	
Rated Voltage	2V
Nominal Capacity(C10, 1.80V/cell)	350Ah
Terminal	M8
Approx. Weight	27.0±3% kg(59.5lbs)
Container Material	ABS
short-circuit current	3333A
Internal resistance(25°C:)	Approx 0.60 mΩ
Nominal Operating Temp. Range	25±5°C (77±5°F)
Self discharge	≤3%/month @ 25°C
Charge voltage(25°C)	
Max.Charging Current(25°C)	87.5A
Float charge:	2.23~2.25V/cell (-3mV/ °C)
Equalize charge:	2.30~2.40V/cell (-4mV/ °C)
Cycle charge:	2.35~2.45V/cell(-5mV/ °C)
Effect of temp to Capacity	
40°C (104°F)	105%
25°C (77°F)	100%
0°C (32°F)	85%

Dimension:124(L)×206(W) ×473(H)×505(TH)
Unit: mm



Rated Capacity(25°C)	
10Hour Rate (35.0A to 1.8V)	350.0Ah
5Hour Rate (59.3A to 1.8V)	296.5Ah
3Hour Rate (87.0A to 1.8V)	261.0Ah
1Hour Rate (170.0A to 1.8V)	170.0Ah
Operating Temperature	
Discharge:	-15 ~50°C(5~ 122°F)
Charge :	-15 ~50°C(5~ 122°F)
Storage:	-20 ~40°C(-4~ 104°F)

Constant Current Discharge Characteristics Unit:A (25°C,77°F)

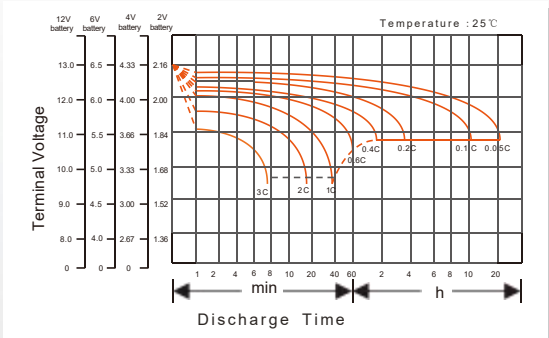
FV/Time	15min	30min	1h	2h	3h	4h	5h	6h	8h	10h	12h	20h	24h	48h	72h	100h
1.60V	360	282	208	130	94	74	63.2	55.6	44.9	36.7	31.0	19.0	16.5	9.01	6.50	5.02
1.65V	340	268	196	126	92	73	62.5	54.9	44.5	36.6	30.8	18.8	16.3	9.01	6.41	5.02
1.70V	321	257	192	123	90	72	61.7	54.1	44.0	36.4	30.7	18.7	16.2	8.84	6.24	4.85
1.75V	300	243	180	120	88	71	60.6	53.0	43.1	35.9	30.5	18.6	15.9	8.84	6.20	4.85
1.80V	280	228	170	116	87	69	59.3	51.6	42.1	35.0	29.8	18.0	15.6	8.66	5.89	4.68
1.85V	238	190	144	105	75	61	52.8	46.4	38.9	33.3	29.5	17.7	15.1	8.14	5.54	4.50
1.90V	197	158	123	89	67	56	49.1	42.9	35.2	29.9	26.5	15.9	13.9	7.62	5.11	4.16
1.95V	154	117	87	66	55	48	38.6	33.0	27.0	24.0	21.1	13.5	12.3	6.58	4.33	3.47

Constant Power Discharge Characteristics Unit: W/cell (25°C ,77°F)

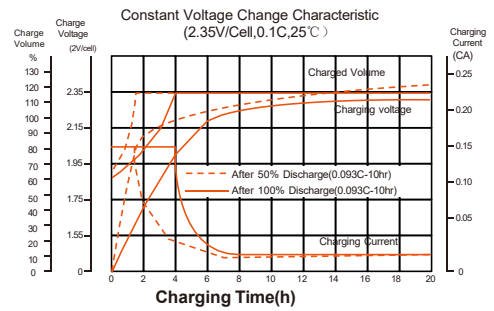
FV/Time	15min	30min	1h	2h	3h	4h	5h	6h	8h	10h	12h	20h	24h	48h	72h	100h
1.60V	621	497	379	243	177	141	120.1	105.9	85.8	70.3	59.4	36.5	32.7	17.98	12.99	10.02
1.65V	593	472	357	237	174	138	119.0	104.8	85.2	70.2	59.3	36.3	32.6	17.96	12.79	9.99
1.70V	561	453	352	232	172	138	117.8	103.4	84.5	70.0	59.1	36.2	32.4	17.67	12.46	9.70
1.75V	530	434	336	227	169	136	116.3	101.9	83.2	69.3	58.9	36.0	31.9	17.65	12.40	9.69
1.80V	501	417	319	222	166	133	114.0	99.4	81.3	67.6	57.7	35.1	31.4	17.42	11.85	9.41
1.85V	430	350	274	201	145	119	102.7	90.4	75.7	65.0	57.5	34.8	30.7	16.56	11.28	9.16
1.90V	358	300	237	173	131	111	96.3	84.2	69.1	58.8	52.1	31.6	28.8	15.82	10.60	8.63
1.95V	288	223	168	128	107	94	75.7	65.0	53.2	47.4	41.8	26.9	25.6	13.69	9.01	7.21

Disclaimer: Manufacturers have the right to self-modify the parameters of the product updates, please keep in touch with manufacturers to obtain the latest information.

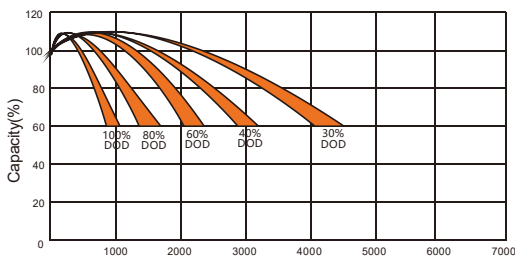
Discharge Characteristics Curve



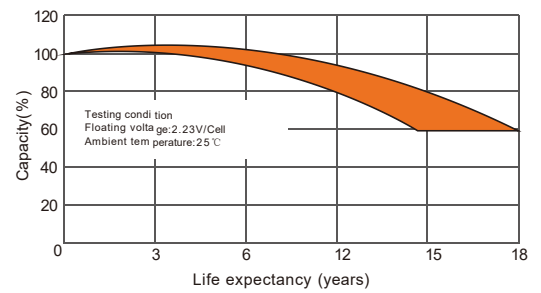
Charging Characteristics Curve



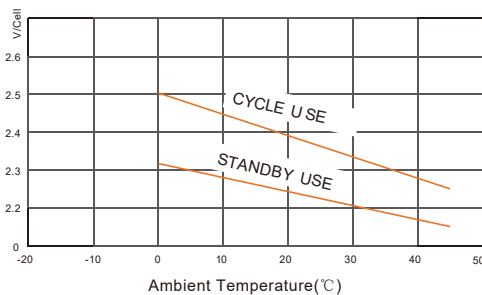
Cycle life of Different DOD



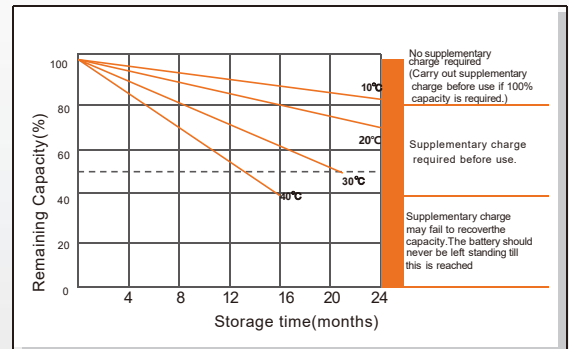
Float charging service life Curve



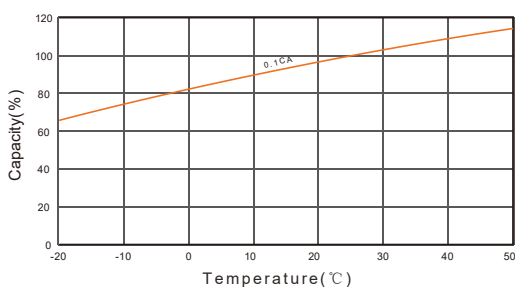
Charging voltage and temperature relationship



Self-discharge Characteristics



Temperature Effects in Relation to Battery Capacity



Temperature Effects on Long Term Float Life

