



## OPzV SERIES

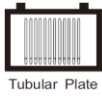
## TUBULAR GEL BATTERY

HRESYS OPzV Series is traditional Tubular Gel type Battery. It utilizes tubular positive plate and fumed silica Gel electrolyte to provide excellent deep cyclic performance, fast recovery performance and high reliability. OPzV Series is designed mainly for cyclic applications at harsh working conditions, such as renewable energy storage, power utilities, telecom cyclic use, etc.



### FEATURES AND BENEFITS

- 18 years extreme long life design
- Tubular positive plate and Silica Gel electrolyte enables excellent deep cycle performance
- Low density electrolyte reduce corrosions and enables long service life
- Excellent deep discharge recovery capability
- Reliable maintenance-free and leakage-free construction
- Wide operating temperature range from -40°C to 60°C
- Low self-discharge rate and long shelf life (1 year at 25°C)
- DIN standard compliance



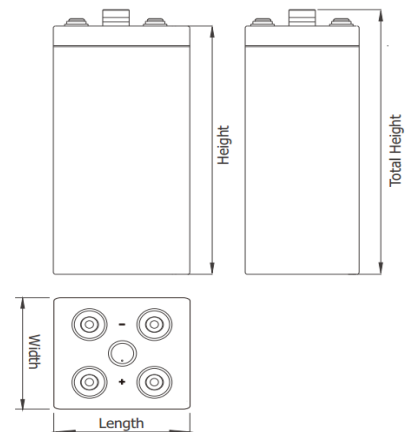
### ELECTRICAL SPECIFICATIONS

Model No.	Nominal Voltage (V)	Capacity ( 25°C )						Internal Resist. (mΩ)	Short Circuit Current (A)	Maximum Current	
		C <sub>10</sub> @ 1.80Vpc	C <sub>8</sub> @ 1.75Vpc	C <sub>3</sub> @ 1.70Vpc	C <sub>1</sub> @ 1.60Vpc	C <sub>100</sub> @ 1.85Vpc	C <sub>120</sub> @ 1.85Vpc			Charge	Discharge (5 sec)
		(Ah)								(A)	
4OPzV200	2	200	194	165	109	258	261	< 0.98	1800	50	1000
5OPzV250	2	250	243	206	137	323	326	< 0.80	2300	62.5	1000
6OPzV300	2	300	291	247	164	387	392	< 0.70	2600	75	1500
5OPzV350	2	350	340	284	191	452	457	< 0.60	2850	87.5	1500
6OPzV420	2	420	407	339	230	542	545	< 0.52	3400	105	1500
7OPzV500	2	500	485	414	273	635	641	< 0.51	4000	125	2000
6OPzV600	2	600	582	495	328	760	769	< 0.45	4200	150	2000
8OPzV800	2	800	776	651	431	1020	1032	< 0.32	5300	200	2000
10OPzV1000	2	1000	970	810	533	1275	1290	< 0.28	6400	250	2500
12OPzV1200	2	1200	1164	954	640	1520	1542	< 0.26	7400	300	2500
12OPzV1500	2	1500	1455	1191	795	1900	1910	< 0.20	8200	375	3000
16OPzV2000	2	2000	1940	1587	1061	2535	2545	< 0.18	10300	500	3000
20OPzV2500	2	2500	2425	2022	1326	3160	3188	< 0.17	13500	625	4000
24OPzV3000	2	3000	2910	2427	1591	3789	3800	< 0.16	15000	750	4000

• For detailed discharge data of each single battery model, contact us by sending emails to [sales@hresys.com](mailto:sales@hresys.com)

### Physical Specifications

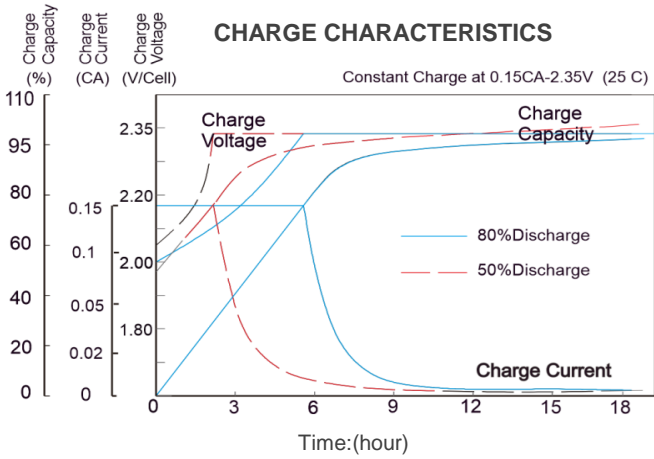
Model No.	Dimension (mm)				Weight (Kgs)	Terminal	
	Length	Width	Height	Total Height		Type	Torque (N·m)
4OPzV200	103	206	354	390	17.3	F-M8	10-12
5OPzV250	124	206	354	390	20.7	F-M8	10-12
6OPzV300	145	206	354	390	24.4	F-M8	10-12
5OPzV350	124	206	471	506	27.5	F-M8	10-12
6OPzV420	145	206	471	506	32.5	F-M8	10-12
7OPzV500	166	206	471	506	37.3	F-M8	10-12
6OPzV600	145	206	646	681	44.2	F-M8	10-12
8OPzV800	191	210	646	681	60	F-M8	10-12
10OPzV1000	233	210	646	681	71.5	F-M8	10-12
12OPzV1200	275	210	646	681	87	F-M8	10-12
12OPzV1500	275	210	796	831	107	F-M8	10-12
16OPzV2000	399	212	772	807	147	F-M8	10-12
20OPzV2500	487	212	772	807	185	F-M8	10-12
24OPzV3000	576	212	772	807	216	F-M8	10-12



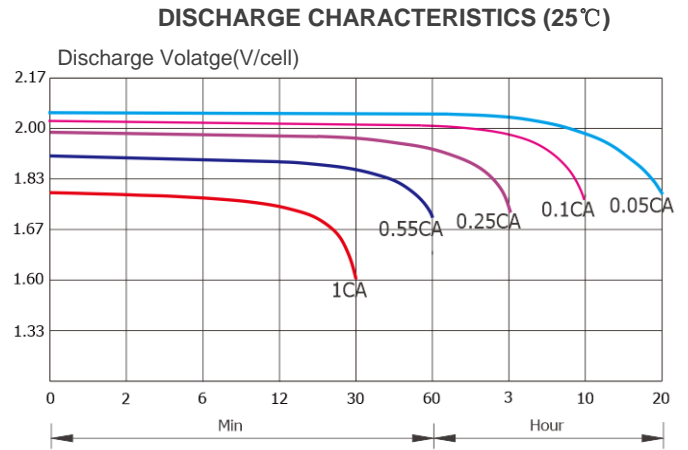
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# TUBULAR GEL BATTERY

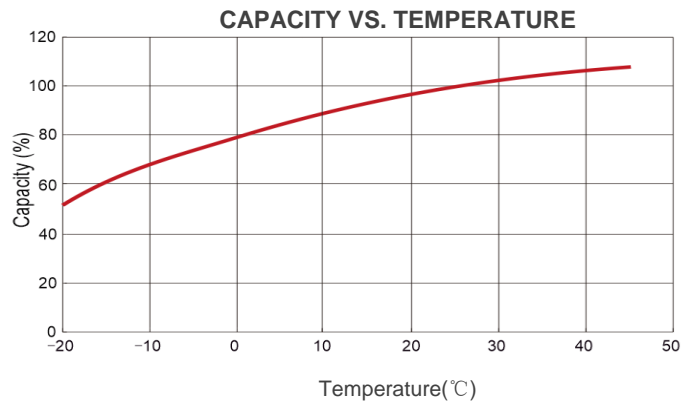
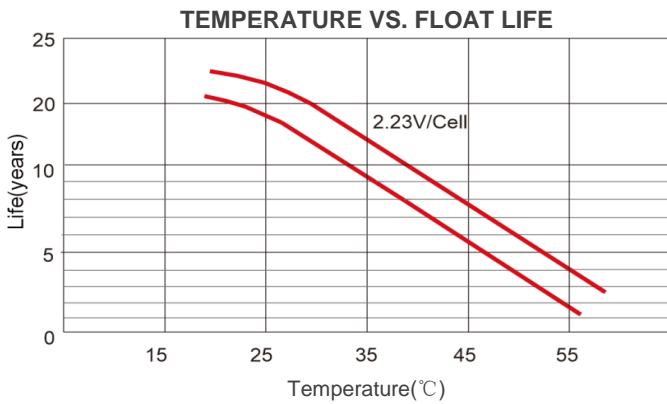
## CHARGE / DISCHARGE CHARACTERISTICS



• Float voltage: 2.23Vpc, Equalization voltage: 2.35 Vpc@25°C

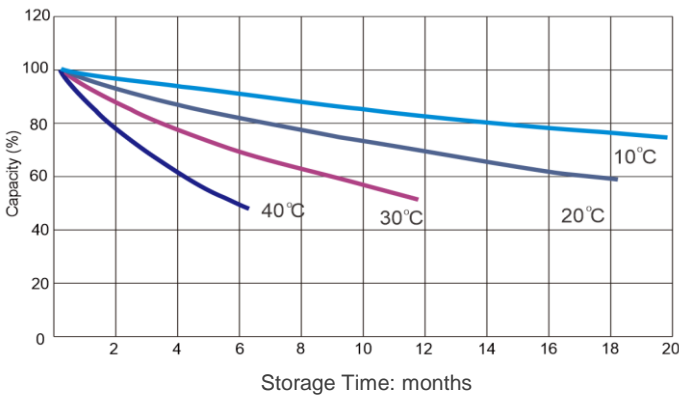


## TEMPERATURE CHARACTERISTICS

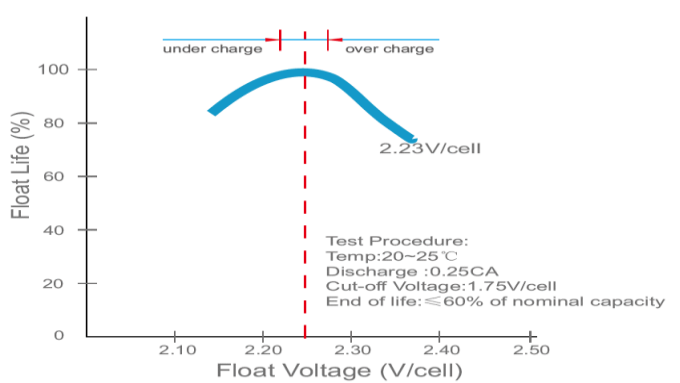


Temperature Range		
Discharge	Charge	Storage
-40 °C to +60°C	-20 °C to +55°C	-20 °C to +45°C

## SELF-DISCHARGE CHARACTERISTICS



## STATIONARY / FLOAT CHARACTERISTICS



## STANDARDS COMPLIANCE



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