OPzS series

2V Tubular Flooded Battery

AGG OPzS series is traditional tubular flooded battery. OPzS series offers excellent deep cyclic performance, and extra-long service life, as well as recovery performance thanks to the tubular positive plate and flooded design. OPzS series is mainly designed for renewable energy storage, telecom, emergency power, etc.

Renewable Energy | Telecom | UPS | Utility

Features and Benefits

- 20 years extreme long life design at 25°C (77°F)
- Tubular positive plate for long cyclic life
- Reliable and robust against harsh environments
- Excellent deep discharge recovery capability
- Special filter unit for acid fog proof
- Less sensitive to working environment
- Transparent container allows easy observation
- DIN40736-1 standard compliance

Design life >20 year - Very Long Life | Tubular Plate | Flooded battery | Recyclable

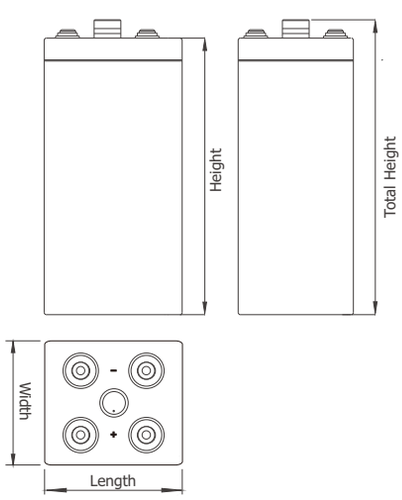
2V Tubular Flooded Battery

Electrical Specifications

Model	Number of cells	Nominal Voltage (V)	Capacity (25℃)						IR	Short Circuit Current	Maximum Current	
			C_{10} @1.80 V/cell	C_8 @1.75 V/cell	C_3 @1.70 V/cell	C_1 @ 1.60 V/cell	C_{100} @1.85 V/cell	C_{120} @1.85 V/cell			Charge	Discharge (5 sec)
			(Ah)						(mΩ)	(A)	(A)	
4OPzS200	1	2	200	198	162	116	270	274	0.92	2400	50	1000
5OPzS250	1	2	250	247	190	145	338	343	0.80	2700	62.5	1000
6OPzS300	1	2	300	297	228	175	405	411	0.68	3000	75	1000
5OPzS350	1	2	350	338	261	199	473	480	0.67	3200	87.5	1000
6OPzS420	1	2	420	406	312	239	567	575	0.62	3500	105	1200
7OPzS490	1	2	500	489	378	288	675	685	0.56	3700	125	1200
6OPzS600	1	2	600	594	456	346	810	822	0.52	3800	150	1500
8OPzS800	1	2	800	788	606	464	1080	1096	0.36	4500	200	2500
10OPzS1000	1	2	1000	984	753	577	1350	1370	0.31	5000	250	2500
12OPzS1200	1	2	1200	1176	906	692	1620	1644	0.28	6500	300	2500
12OPzS1500	1	2	1500	1472	1128	865	2025	2055	0.26	7000	375	2500
16OPzS2000	1	2	2000	1960	1506	1153	2700	2740	0.20	8800	500	3600
20OPzS2500	1	2	2500	2448	1881	1442	3375	3425	0.18	9600	625	3600
24OPzS3000	1	2	3000	2944	2256	1730	4050	4110	0.15	12000	750	3600

Physical Specifications

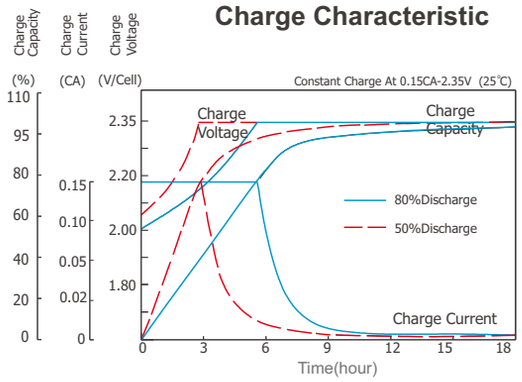
Model	Dimension (mm)				Weight (kg)		Terminal	
	Length	Width	Height	Total Height	Without electrolyte	With electrolyte	Type	Torque (N.m)
4OPzS200	103	206	355	410	12.9	17.6	F-M8	10-12
5OPzS250	124	206	355	410	15.3	20.7	F-M8	10-12
6OPzS300	145	206	355	410	17.6	24	F-M8	10-12
5OPzS350	124	206	471	526	20.1	27.3	F-M8	10-12
6OPzS420	145	206	471	526	23.6	32.6	F-M8	10-12
7OPzS490	166	206	471	526	26.0	37.8	F-M8	10-12
6OPzS600	145	206	646	701	32.2	43.9	F-M8	10-12
8OPzS800	191	210	646	701	43.8	59.6	F-M8	10-12
10OPzS1000	233	210	646	701	53.5	73.5	F-M8	10-12
12OPzS1200	275	210	646	701	62.5	86.7	F-M8	10-12
12OPzS1500	275	210	773	828	77	107	F-M8	10-12
16OPzS2000	399	210	773	828	105.5	136	F-M8	10-12
20OPzS2500	487	212	771	826	131	183	F-M8	10-12
24OPzS3000	576	212	772	826	155	215	F-M8	10-12



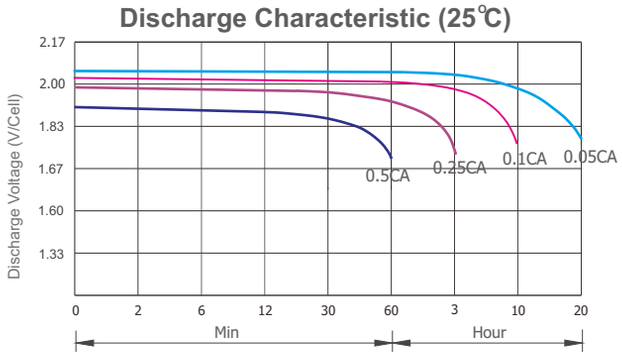
OPzS series 2V Tubular Flooded Battery

Charge/Discharge Characteristics

Charge Characteristic



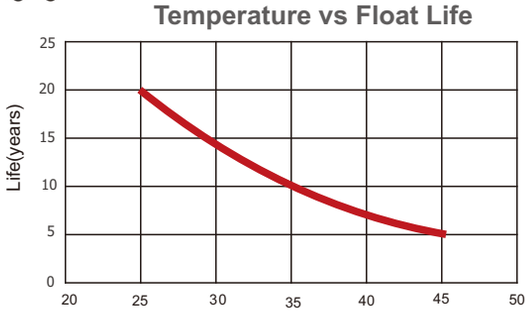
Discharge Characteristic (25℃)



*Float voltage: 2.23Vpc, Equalization voltage: 2.35Vpc @25℃

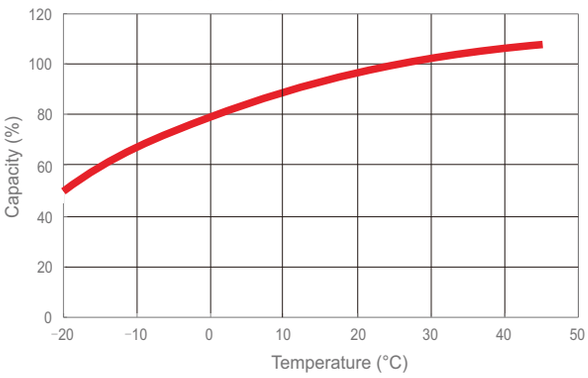
Temperature Characteristics

Temperature vs Float Life



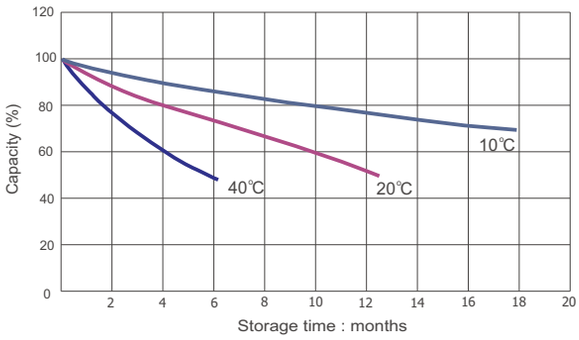
Temperature Range		
Discharge	Charge	Storage
-25℃ to +65℃	-20℃ to +60℃	-20℃ to +45℃

Capacity vs Temperature



Self discharge characteristics

Self discharge characteristics



Standards Compliance

DIN40736-1