

## OPzS2-1000 2Volt 1000Ah

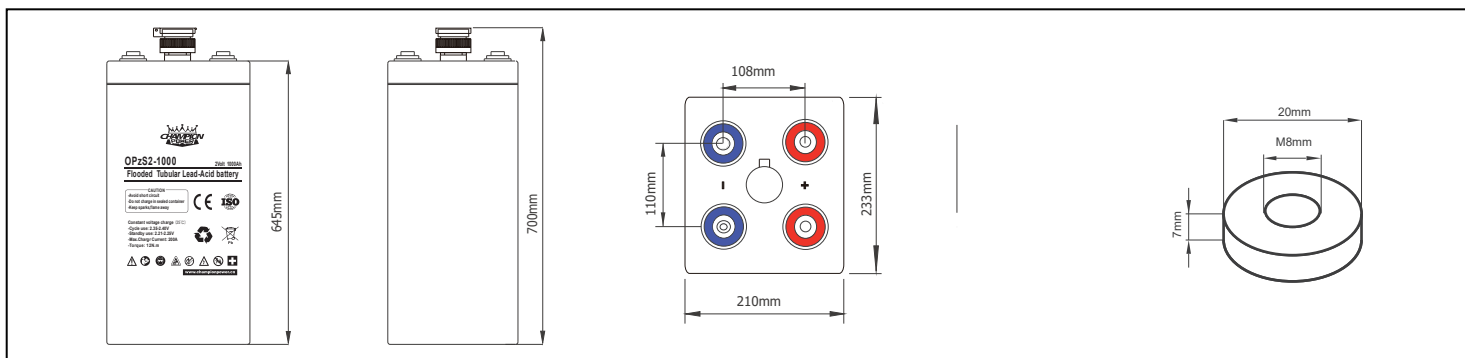
### OPzS Series Battery

OPzS series is a traditional tubular plate flooded battery which offers 25+ years design life according to the standard IEC60896-11. With a new design and technical improvement, it offers maximum efficiency and reliability for the widest variety of applications. This series is highly suited for all standby power applications that require the highest levels and security.

### Specification

Battery Model	Nominal Voltage	2V		
	Rated Capacity (10Hour rate)	1000Ah		
Floating Design Life @ 20°C	25+ years			
Dimension	Length	Width	Height	Total Height
	233mm	210mm	647mm	688mm
Approx Weight	Dry weight	53.90Kg		
	Wet weight	73.90Kg		
Electrolyte	Diluted Sulphuric acid of 1.240g/cm <sup>3</sup> (20°C)			
	Acid weight: 20.00Kg			
Internal Resistance	Full charged at 20°C(77°F): Approx 0.44mΩ			
Max.Chargr Current	200A			
Max.Discharge Current	2500A(5s)			
Short Circuit Current	4500A			
Self Discharge	Approx. 4% per month @20°C			
Ambient Temperature	Discharge	-25~65°C		
	Charge	-20~65°C		
	Storage	-15~40°C		
Float Charge Voltage(20~25°C)	2.21~2.25V (-3mV/°C/cell)			
Equalize Charge Voltage(20~25°C)	2.35~2.40V(-5mV/°C/cell)			
Terminal Type	Female copper insert M8 (torque:10~12N.m)			
Container Material	SAN			

### Outer dimension (mm)



### Terminal Type (mm)

### Constant Current Discharge Characteristics:Amps 20°C

F.V / TIME	5min	10min	15min	30min	1h	2h	3h	4h	5h	8h	10h
1.60V	1539	1062	978	788	530	370	279	234	189	129	107
1.65V	1443	975	891	743	514	362	274	230	185	126	105
1.70V	1219	835	791	682	483	352	270	225	181	124	103
1.75V	1082	767	720	621	458	339	265	222	178	122	101
1.80V	984	724	656	529	420	324	258	216	175	120	100
1.85V	721	555	508	438	346	288	232	200	168	115	94
1.90V	460	354	344	322	272	234	196	171	145	104	86

### Long Time Dscharge Capacity

Capacity (Ah)	C <sub>10</sub>	C <sub>20</sub>	C <sub>24</sub>	C <sub>48</sub>	C <sub>72</sub>	C <sub>100</sub>	C <sub>120</sub>	C <sub>240</sub>
	Final Voltage	1.80V	1.85V					

### Constant Power Discharge Characteristics:W/caell 20°C

F.V / TIME	5min	10min	15min	30min	1h	2h	3h	4h	5h	8h	10h
1.60V	2540	1804	1674	1366	933	662	505	426	347	240	200
1.65V	2438	1691	1557	1313	920	658	504	424	344	238	198
1.70V	2133	1474	1405	1224	877	648	501	420	341	237	197
1.75V	1915	1374	1297	1129	841	631	497	417	338	235	194
1.80V	1781	1317	1200	976	784	613	491	413	336	234	191
1.85V	1334	1036	954	827	660	556	453	390	330	229	187
1.90V	884	684	666	626	533	462	390	341	290	209	173

### Parameters Settings

Over voltage disconnect	2.47±0.01V/cell @ 20~25°C
Regulation/equalize voltage	2.40±0.01V/cell @ 20~25°C
Array roconnection voltage	2.23±0.005V/cell @ 20~25°C
Float voltage setting	2.25±0.005V/cell @ 20~25°C
Low voltage alarm voltage	1.95±0.005V/cell @ 20~25°C
Low voltage disconnect	1.90±0.005V/cell @ 20~25°C
Load reconnect voltage	2.09±0.01V/cell @ 20~25°C
Temp. compensate coefficient	-4mV/cell/°C



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