

OPzS2-800 2Volt 800Ah

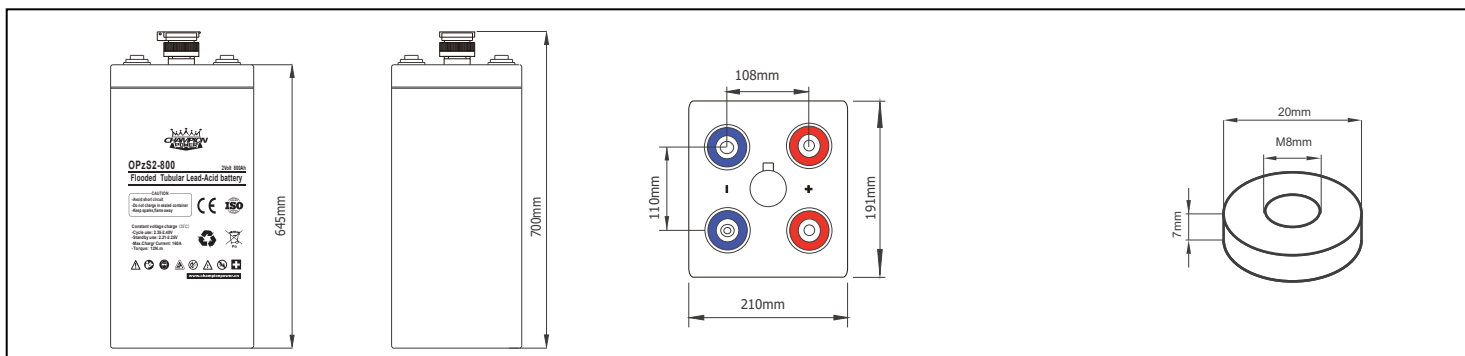
OPzS Series Battery

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)	800Ah		
Floating Design Life @ 20°C	25+ years			
Dimension	Length	Width	Height	Total Height
	191mm	210mm	647mm	688mm
Approx Weight	Dry weight	45.00Kg		
	Wet weight	61.00Kg		
Electrolyte	Diluted Sulphuric acid of 1.240g/cm ³ (20°C) Acid weight: 16.00Kg			
Internal Resistance	Full charged at 20°C(77°F): Approx 0.50mΩ			
Max.Chargr Current	160A			
Max.Discharge Current	2500A(5s)			
Short Circuit Current	4000A			
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	1231	849	782	630	424	296	223	187	151	103	85
1.65V	1154	780	713	595	411	290	220	184	148	101	84
1.70V	975	668	633	546	387	282	216	180	145	100	82
1.75V	865	614	576	497	366	271	212	177	143	98	81
1.80V	787	579	525	423	336	260	206	173	140	96	80
1.85V	577	444	407	350	277	230	186	160	134	92	76
1.90V	368	283	275	257	217	187	157	136	116	83	68

Long Time Dscharge Capacity

Capacity (Ah)	C ₁₀	C ₂₀	C ₂₄	C ₄₈	C ₇₂	C ₁₀₀	C ₁₂₀	C ₂₄₀
800	876	902	992	1040	1080	1096	1120	
Final Voltage	1.80V							

Constant Power Discharge Characteristics:W/caell 20°C

F.V / TIME	5min	10min	15min	30min	1h	2h	3h	4h	5h	8h	10h
1.60V	2032	1444	1339	1092	747	529	404	341	278	192	160
1.65V	1951	1353	1245	1050	736	527	403	339	275	190	159
1.70V	1706	1179	1124	979	702	518	401	336	273	189	157
1.75V	1532	1099	1037	903	673	505	397	333	271	188	156
1.80V	1425	1053	960	781	627	490	393	330	269	188	153
1.85V	1067	829	763	661	528	445	362	312	264	183	150
1.90V	707	547	533	501	426	369	312	273	232	167	139

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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