

OPzV2-800 2Volt 800Ah

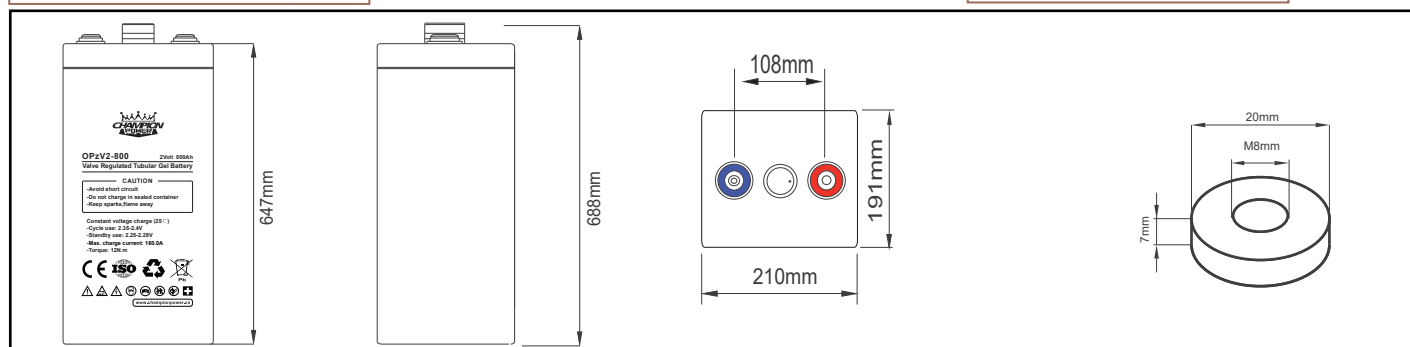
OPzV Series Battery

OPzV series adopts an Immobilized Gel and Tubular Positive Plate technology. It offers high reliability and stable performance. By using die-casted positive grid and patented active material formula, it exceeds the DIN standard values and offer 25+ years design life in float service. It is very suitable for cyclic use under extreme operating conditions. This series is recommended for telecom outdoor applications, solar system and other harsh environment applications.

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	66.0Kg			
Internal Resistance	Full charged at 20°C(77°F): Approx 0.46mΩ			
Max.Charge Current	160A			
Max.Discharge Current	2000A(5s)			
Short Circuit Current	4300A			
Self Discharge	Approx. 2% per month @20°C			
Ambient Temperature	Discharge	-40~65°C		
	Charge	-30~65°C		
	Storage	-25~40°C		
Float Charge Voltage(20~25°C)	2.25~2.29V (-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	ABS (UL94-V0 optional)			

Outer dimension (mm)



Terminal Type (mm)

Constant Current Discharge Characteristics:Amps 20°C

F.V/Time	10min	15min	30min	1h	2h	3h	5h	8h	10h
1.90V	289	281	263	221	188	158	117	83.5	69.7
1.87V	394	368	326	257	210	174	127	88.7	73.6
1.85V	453	415	357	281	232	187	135	92.8	76.5
1.83V	528	462	386	310	247	197	138	95.7	78.0
1.80V	591	536	432	341	261	207	141	96.9	80.0
1.75V	626	588	507	372	273	213	143	98.5	81.2
1.70V	682	646	557	393	283	217	146	100	82.7
1.65V	796	728	607	418	291	221	149	102	84.3
1.60V	867	799	644	431	297	225	152	104	85.9

Long Time Dscharge Capacity

Capacity (Ah)	C ₁₀	C ₂₀	C ₂₄	C ₄₈	C ₇₂	C ₁₀₀	C ₁₂₀	C ₂₄₀
	800	868	904	976	1008	1021	1032	1061
Final Voltage	1.80V		1.85V					

Parameters Settings

Over voltage disconnect	2.45±0.01V/cell @ 20~25°C
Regulation/equalize voltage	2.40±0.01V/cell @ 20~25°C
Array reconnection voltage	2.25±0.005V/cell @ 20~25°C
Float voltage setting	2.27±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	-5mV/cell/°C

Constant Power Discharge Characteristics:W/caell 20°C

F.V/Time	10min	15min	30min	1h	2h	3h	5h	8h	10h
1.90V	558	544	511	433	371	314	234	168	141
1.87V	746	699	624	497	411	342	251	177	148
1.85V	846	779	675	537	447	364	265	184	152
1.83V	975	857	721	585	473	380	268	186	154
1.80V	1075	980	797	637	493	395	271	188	155
1.75V	1122	1059	922	684	508	400	272	189	156
1.70V	1204	1147	999	713	521	403	274	190	158
1.65V	1381	1271	1072	748	529	405	276	191	159
1.60V	1474	1367	1115	758	532	406	279	193	161



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