

OPzS2-1500 2Volt 1500Ah

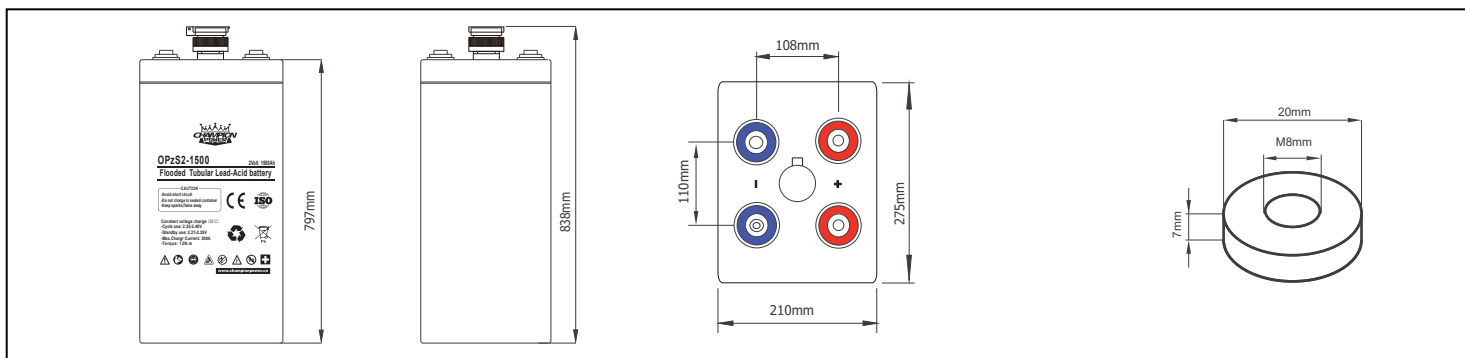
OPzS Series Battery

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)	1500Ah		
Floating Design Life @ 20°C	25+ years			
Dimension	Length	Width	Height	Total Height
	275mm	210mm	797mm	838mm
Approx Weight	Dry weight	77.00Kg		
	Wet weight	104.0Kg		
Electrolyte	Diluted Sulphuric acid of 1.240g/cm ³ (20°C) Acid weight: 27.00Kg			
Internal Resistance	Full charged at 20°C (77°F): Approx 0.37mΩ			
Max.Chargr Current	300A			
Max.Discharge Current	2500A(5s)			
Short Circuit Current	5400A			
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	2309	1592	1467	1182	796	554	419	351	284	193	160
1.65V	2164	1462	1337	1115	771	543	412	345	278	190	157
1.70V	1828	1252	1187	1023	725	528	404	338	272	187	154
1.75V	1623	1151	1081	931	686	508	397	332	268	184	151
1.80V	1476	1085	985	794	631	487	386	324	262	181	150
1.85V	1082	832	763	656	519	432	349	300	251	173	142
1.90V	690	531	516	482	407	350	294	256	218	155	128

Long Time Dscharge Capacity

Capacity (Ah)	C ₁₀	C ₂₀	C ₂₄	C ₄₈	C ₇₂	C ₁₀₀	C ₁₂₀	C ₂₄₀
	Final Voltage	1500	1643	1692	1860	1950	2025	2055

Final Voltage: 1.80V (for C₁₀ to C₇₂), 1.85V (for C₁₀₀ to C₂₄₀)

Constant Power Discharge Characteristics:W/caell 20°C

F.V / TIME	5min	10min	15min	30min	1h	2h	3h	4h	5h	8h	10h
1.60V	3810	2707	2511	2048	1400	992	758	639	521	359	300
1.65V	3657	2536	2335	1969	1381	988	755	636	515	356	298
1.70V	3199	2211	2107	1835	1316	971	751	630	511	355	295
1.75V	2872	2060	1945	1694	1262	947	745	625	508	353	292
1.80V	2672	1975	1800	1465	1176	919	736	619	505	352	286
1.85V	2001	1555	1430	1240	991	835	679	585	494	343	281
1.90V	1325	1025	1000	940	799	692	586	512	436	313	260

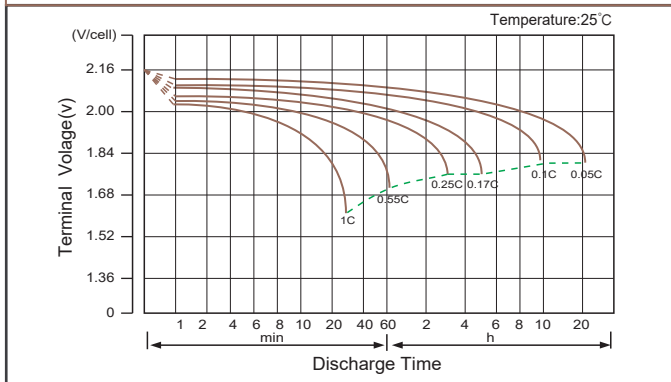
Parameters Settings

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

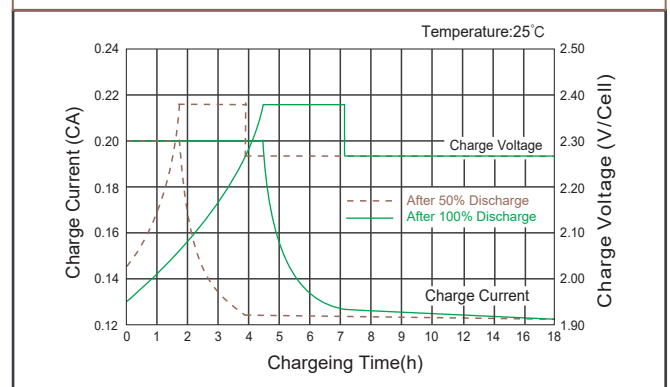


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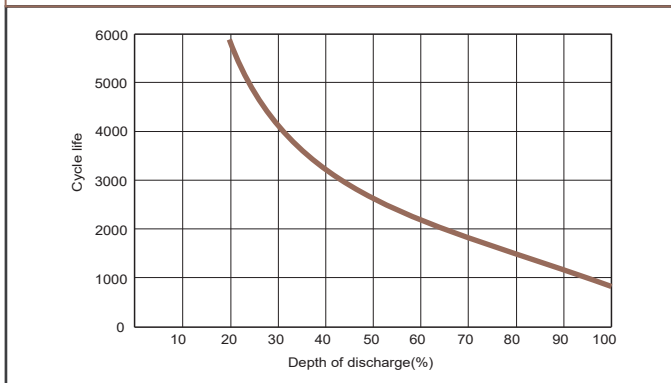
Discharge characteristic Curve



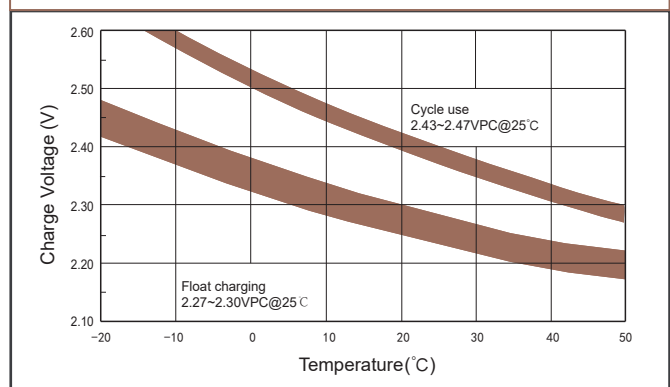
Charge Characteristic Curve for Cycle Use(IUU)



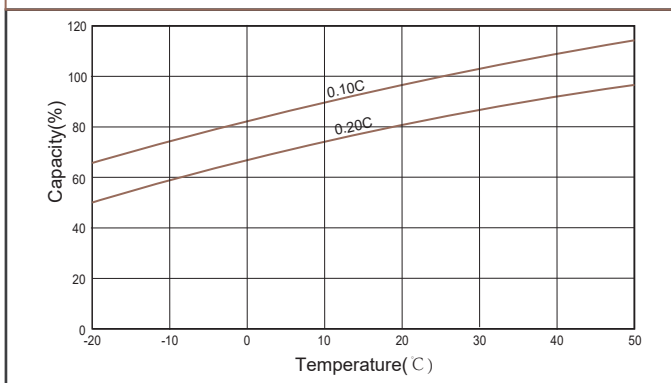
Cycle Life vs Depth of Discharge



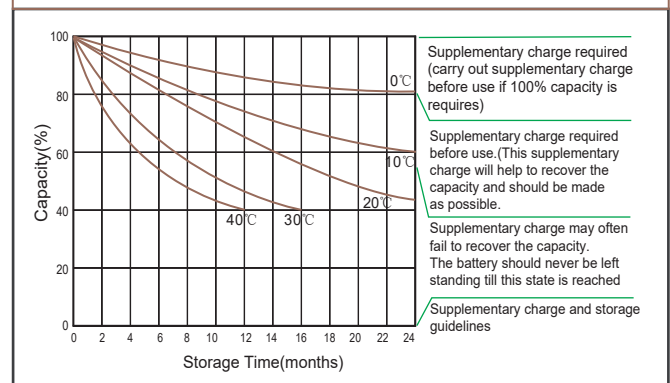
Relationship Between Charging Voltage And Temperature



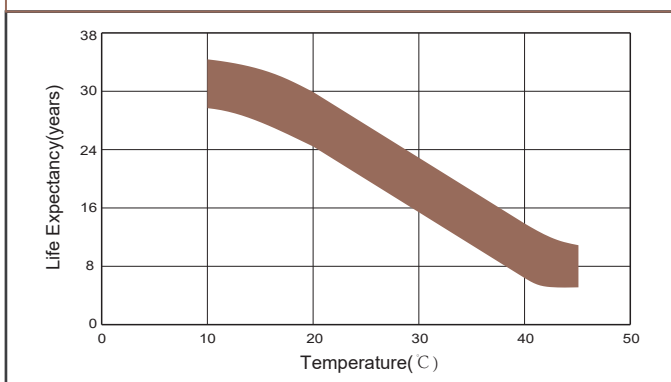
Temperature Effects On Capacity



Storage Characteristics



Effect Of emperature On Long Term Life



Relationship of OCV And State of Charge(20°C)

