

OPzS2-2500 2Volt 2500Ah

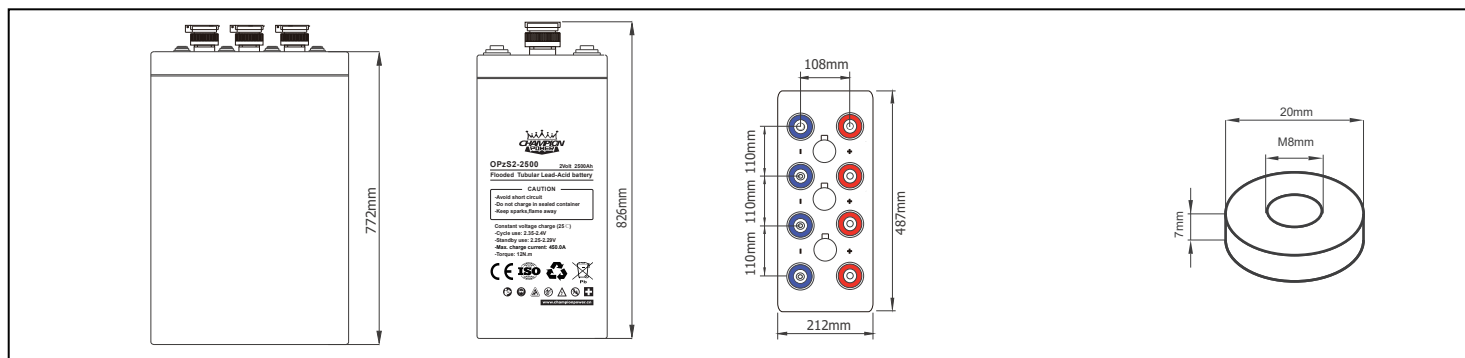
OPzS Series Battery

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)	2500Ah		
Floating Design Life @ 20°C	25+ years			
Dimension	Length	Width	Height	Total Height
	487mm	212mm	772mm	847mm
Approx Weight	Dry weight	150.0Kg		
	Wet weight	200.0Kg		
Electrolyte	Diluted Sulphuric acid of 1.240g/cm ³ (20°C) Acid weight: 50.0Kg			
Internal Resistance	Full charged at 20°C(77°F): Approx 0.32mΩ			
Max.Chargr Current	450A			
Max.Discharge Current	4000A(5s)			
Short Circuit Current	6300A			
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	3848	2654	2445	1970	1326	924	698	586	473	322	267
1.65V	3607	2437	2228	1858	1285	905	686	575	463	316	262
1.70V	3047	2087	1978	1705	1208	880	674	564	453	311	257
1.75V	2704	1918	1801	1552	1144	847	662	554	446	306	252
1.80V	2460	1809	1641	1323	1051	811	644	541	437	301	250
1.85V	1803	1387	1271	1094	865	720	581	500	419	288	236
1.90V	1151	885	860	804	679	584	490	427	363	259	214

Long Time Dscharge Capacity

Capacity (Ah)	C ₁₀	C ₂₀	C ₂₄	C ₄₈	C ₇₂	C ₁₀₀	C ₁₂₀	C ₂₄₀
	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	6350	4511	4185	3414	2333	1654	1263	1066	868	599	500
1.65V	6095	4227	3892	3282	2301	1646	1259	1060	859	594	496
1.70V	5332	3685	3512	3059	2193	1619	1252	1049	852	592	492
1.75V	4787	3434	3242	2823	2103	1578	1242	1042	846	588	486
1.80V	4453	3292	3000	2441	1960	1532	1227	1032	841	586	477
1.85V	3336	2591	2384	2067	1651	1391	1132	975	824	572	468
1.90V	2209	1709	1666	1566	1332	1154	976	853	726	522	433

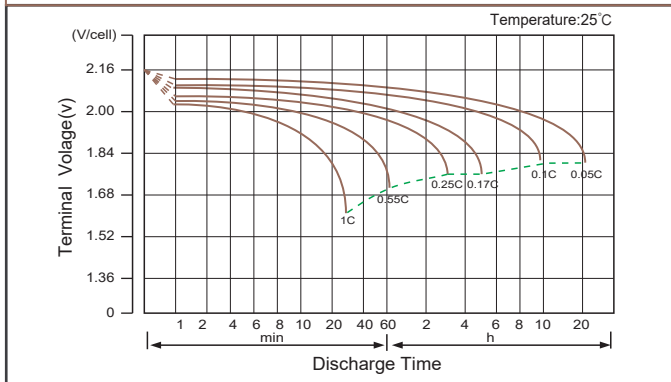
Parameters Settings

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

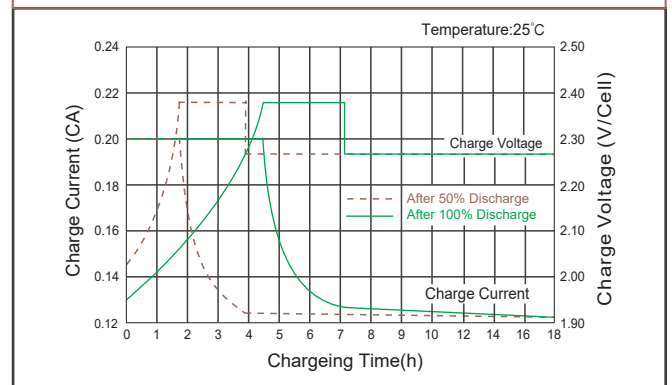


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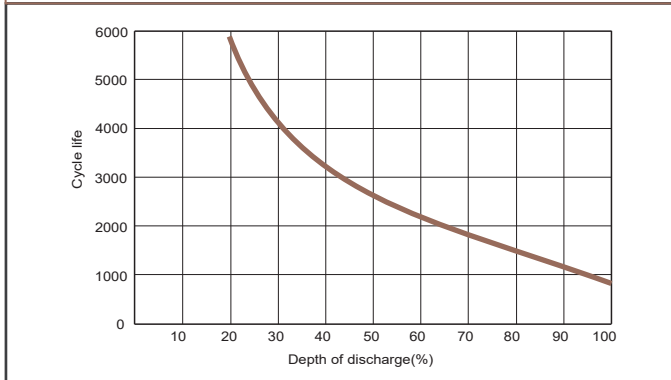
Discharge characteristic Curve



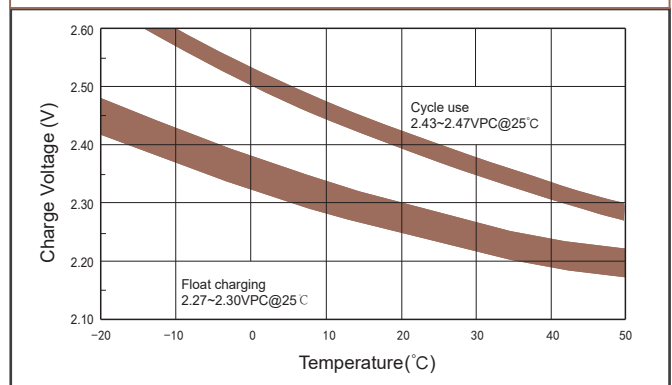
Charge Characteristic Curve for Cycle Use(IUU)



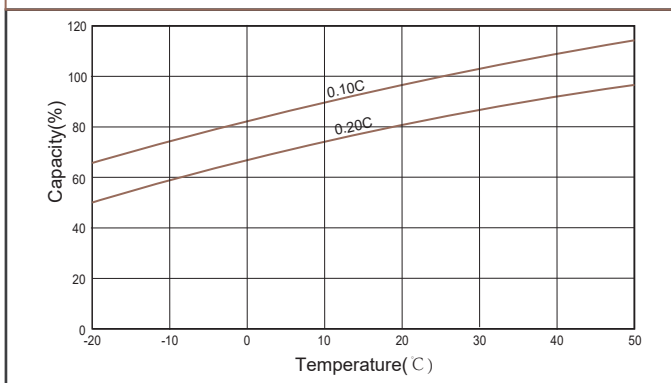
Cycle Life vs Depth of Discharge



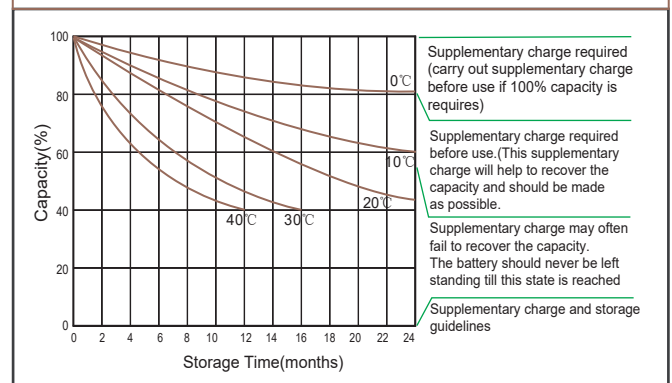
Relationship Between Charging Voltage And Temperature



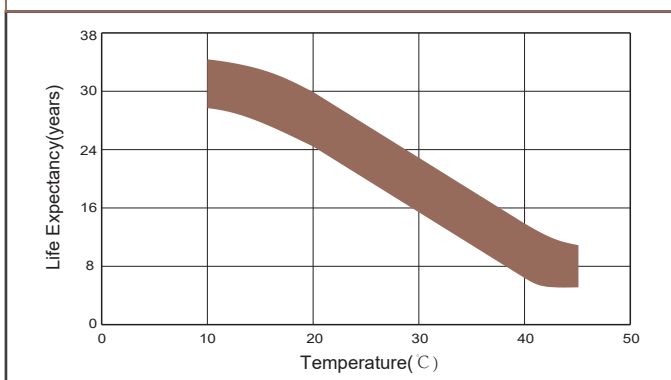
Temperature Effects On Capacity



Storage Characteristics



Effect Of emperature On Long Term Life



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

