

OPzS2-2000 2Volt 2000Ah

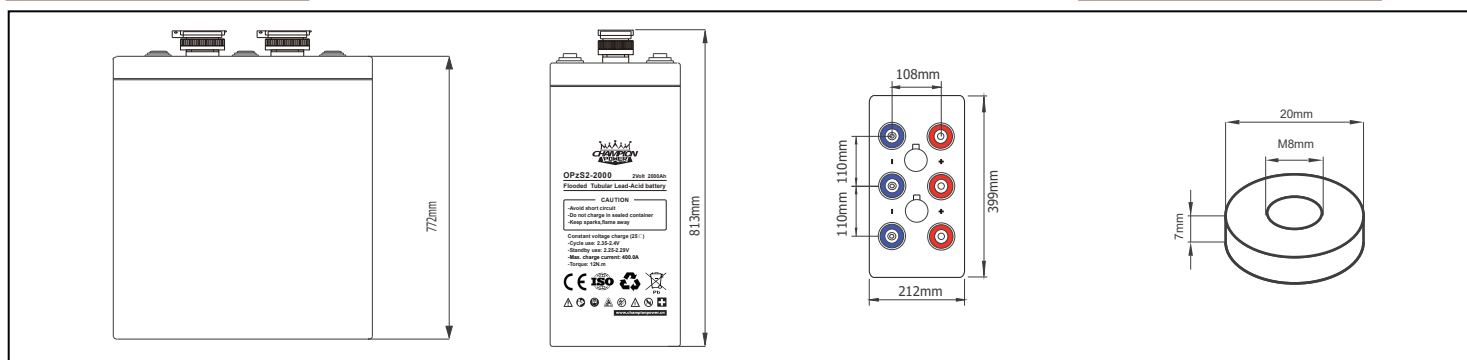
OPzS Series Battery

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)	2000Ah		
Floating Design Life @ 20°C	25+ years			
Dimension	Length	Width	Height	Total Height
	397mm	212mm	772mm	813mm
Approx Weight	Dry weight	119.50Kg		
	Wet weight	150.00Kg		
Electrolyte	Diluted Sulphuric acid of 1.240g/cm ³ (20°C)			
	Acid weight: 63.0Kg			
Internal Resistance	Full charged at 20°C(77°F): Approx 0.33mΩ			
Max.Chargr Current	400A			
Max.Discharge Current	3600A(5s)			
Short Circuit Current	6000A			
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	3079	2123	1956	1576	1061	739	558	468	378	258	214
1.65V	2885	1950	1782	1486	1028	724	549	460	370	253	210
1.70V	2438	1670	1582	1364	966	704	539	451	362	249	206
1.75V	2164	1534	1441	1242	915	678	530	443	357	245	202
1.80V	1968	1447	1313	1058	841	649	515	432	350	241	200
1.85V	1442	1110	1017	875	692	576	465	400	335	230	189
1.90V	920	708	688	643	543	467	392	341	290	207	171

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	5080	3609	3348	2731	1866	1323	1010	852	694	479	400
1.65V	4876	3382	3114	2626	1841	1317	1007	848	687	475	397
1.70V	4266	2948	2810	2447	1754	1295	1002	839	682	474	394
1.75V	3829	2747	2594	2258	1682	1262	994	833	677	470	389
1.80V	3562	2634	2400	1953	1568	1226	982	826	673	469	382
1.85V	2689	2073	1907	1654	1321	1113	906	780	659	458	374
1.90V	1767	1367	1333	1253	1066	923	781	682	581	418	346

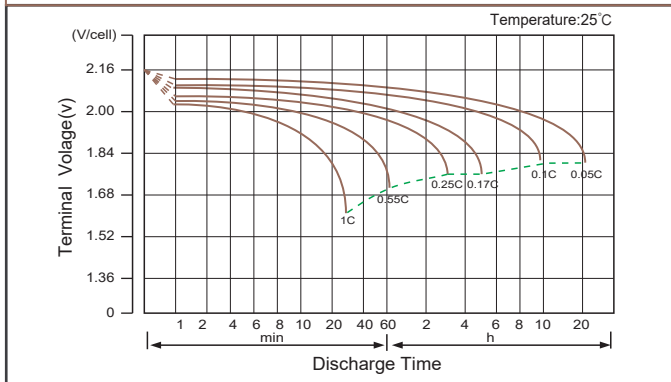
Parameters Settings

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

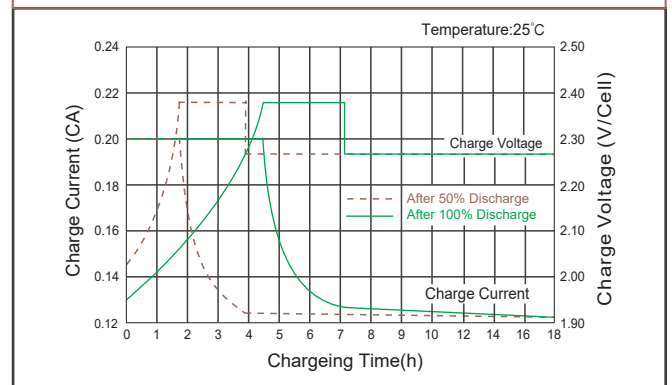


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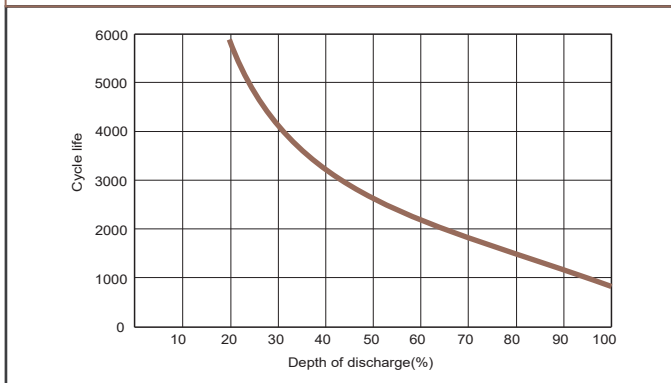
Discharge characteristic Curve



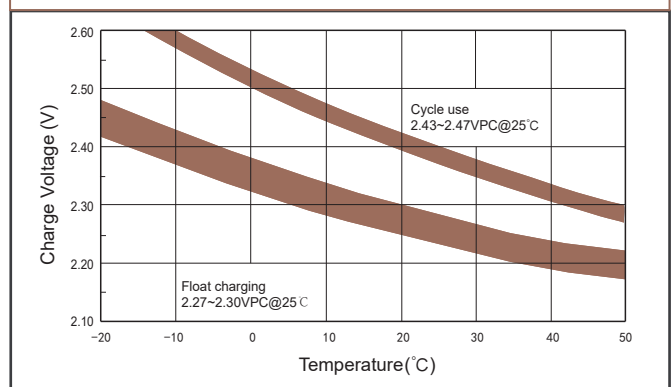
Charge Characteristic Curve for Cycle Use(IUU)



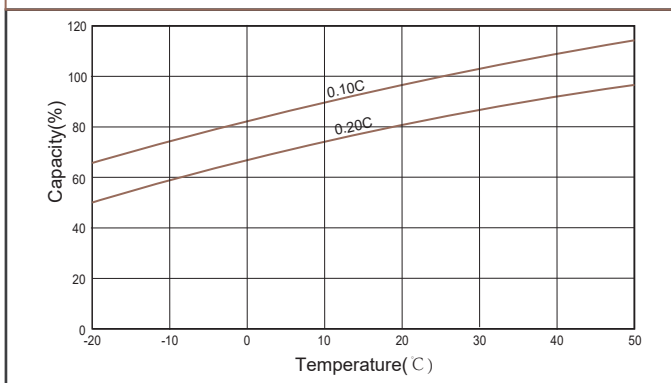
Cycle Life vs Depth of Discharge



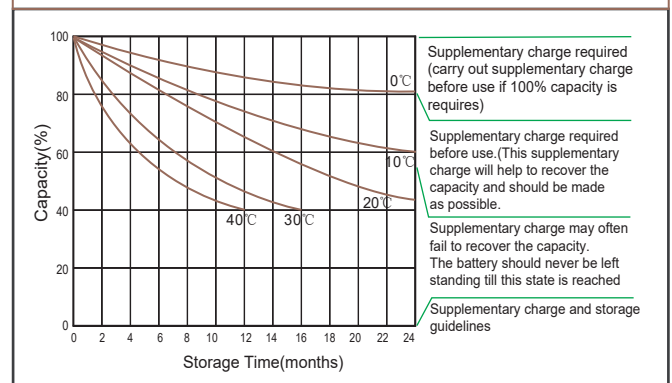
Relationship Between Charging Voltage And Temperature



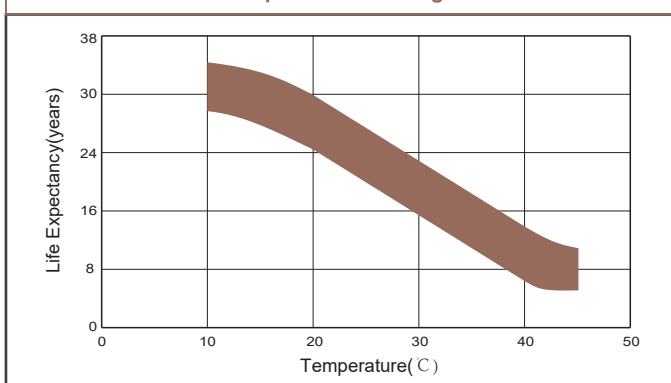
Temperature Effects On Capacity



Storage Characteristics



Effect Of emperature On Long Term Life



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

