

OPzS2-1200 2Volt 1200Ah

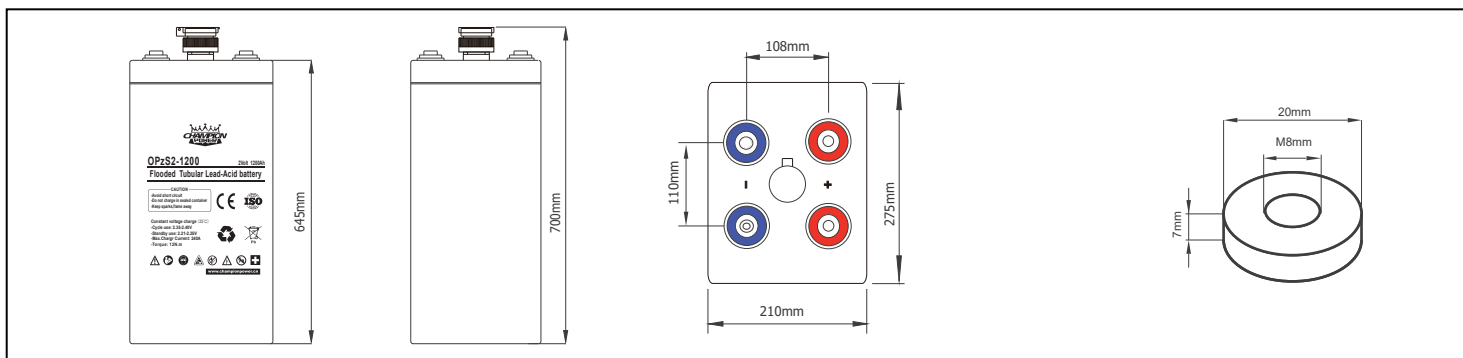
OPzS Series Battery

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)	1200Ah		
Floating Design Life @ 20°C	25+ years			
Dimension	Length	Width	Height	Total Height
	275mm	210mm	647mm	688mm
Approx Weight	Dry weight	64.00Kg		
	Wet weight	86.00Kg		
Electrolyte	Diluted Sulphuric acid of 1.240g/cm ³ (20°C)			
	Acid weight: 22.00Kg			
Internal Resistance	Full charged at 20°C(77°F): Approx 0.40mΩ			
Max.Chargr Current	240A			
Max.Discharge Current	2500A(5s)			
Short Circuit Current	5000A			
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	1847	1274	1174	946	636	444	335	281	227	155	128
1.65V	1731	1170	1069	892	617	434	329	276	222	152	126
1.70V	1463	1002	949	818	580	422	324	270	217	149	123
1.75V	1298	921	864	745	549	407	318	266	214	147	121
1.80V	1181	868	788	635	504	389	309	259	210	144	120
1.85V	865	666	610	525	415	346	279	240	201	138	113
1.90V	552	425	413	386	326	280	235	205	174	124	103

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	3048	2165	2009	1639	1120	794	606	511	417	288	240
1.65V	2926	2029	1868	1575	1104	790	604	509	412	285	238
1.70V	2559	1769	1686	1468	1053	777	601	504	409	284	236
1.75V	2298	1648	1556	1355	1009	757	596	500	406	282	233
1.80V	2137	1580	1440	1172	941	735	589	496	404	281	229
1.85V	1601	1244	1144	992	792	668	543	468	396	275	225
1.90V	1060	820	800	752	639	554	468	409	348	251	208

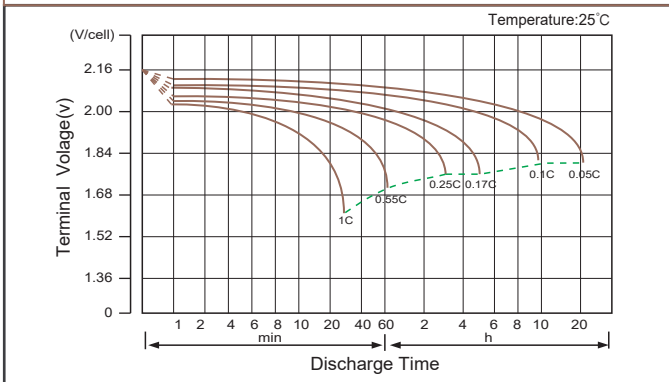
Parameters Settings

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

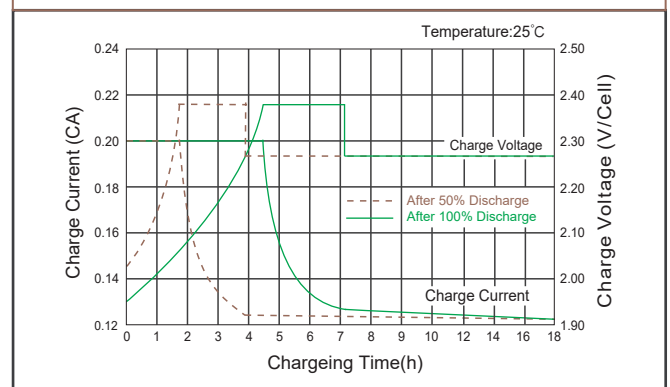


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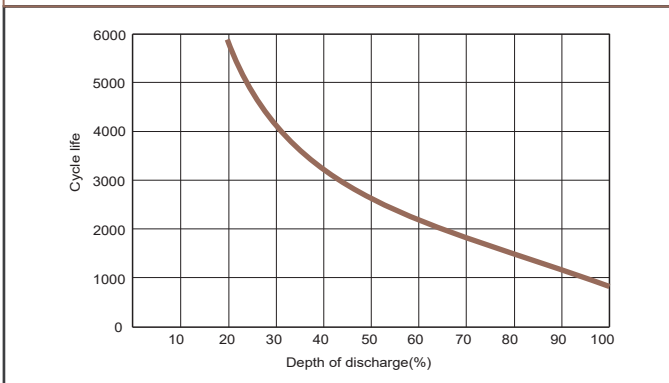
Discharge characteristic Curve



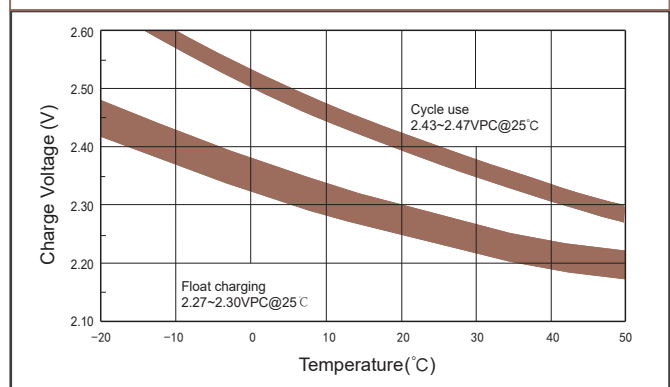
Charge Characteristic Curve for Cycle Use(IUU)



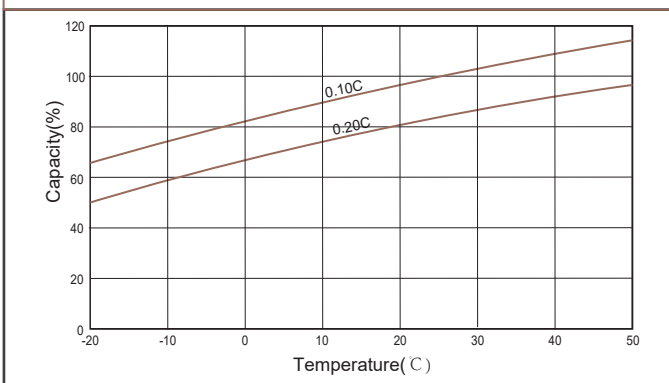
Cycle Life vs Depth of Discharge



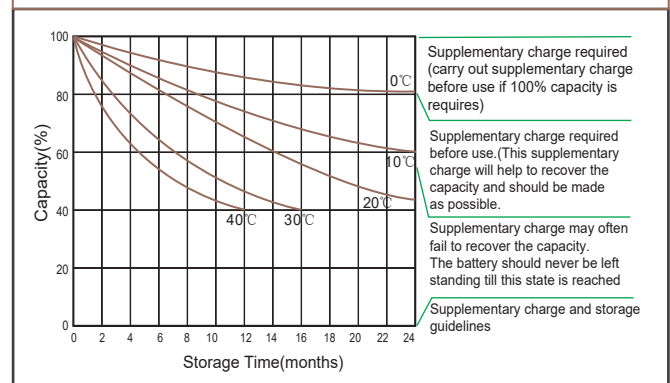
Relationship Between Charging Voltage And Temperature



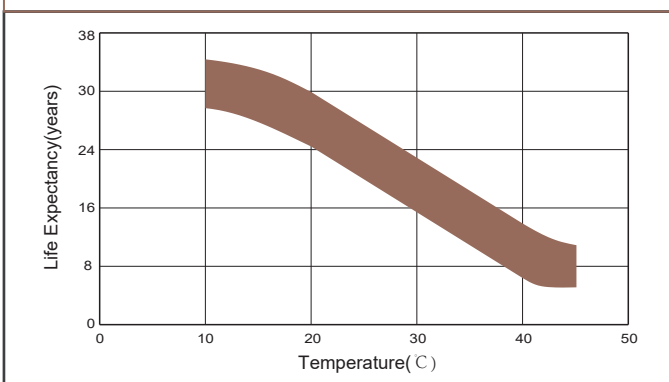
Temperature Effects On Capacity



Storage Characteristics



Effect Of emperature On Long Term Life



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

