

OPzS2-300 2Volt 300Ah

OPzS Series Battery

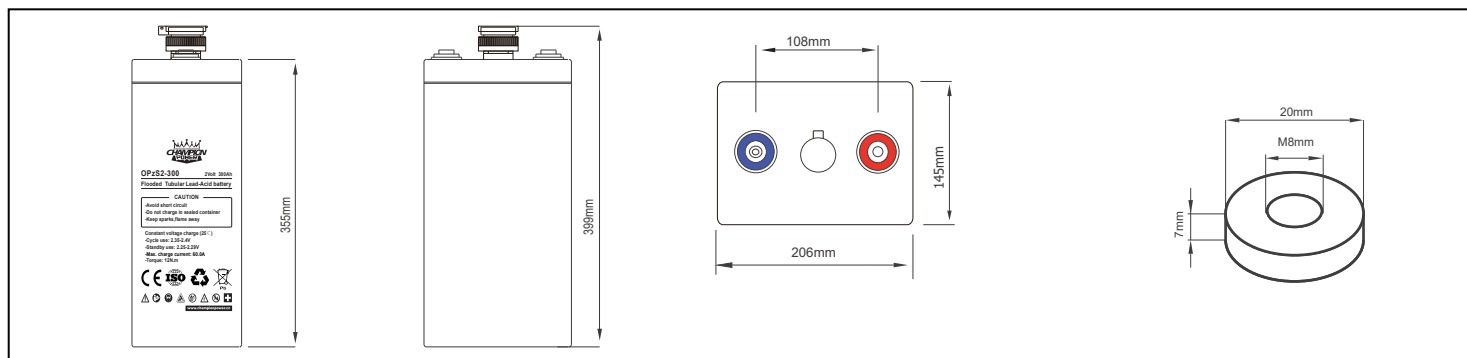
OPzS series is a traditional tubular plate flooded battery which offers 25+ years design life according to the standard IEC60896-11. With a new design and technical improvement, it offers maximum efficiency and reliability for the widest variety of applications. This series is highly suited for all standby power applications that require the highest levels and security.

Specification

Battery Model	Nominal Voltage	2V		
	Rated Capacity (10Hour rate)	300Ah		
Floating Design Life @ 20°C	25+ years			
Dimension	Length	Width	Height	Total Height
	145mm	206mm	355mm	399mm
Approx Weight	Dry weight	17.50Kg		
	Wet weight	23.50Kg		
Electrolyte	Diluted Sulphuric acid of 1.240g/cm ³ (20°C)			
	Acid weight: 6.00Kg			
Internal Resistance	Full charged at 20°C(77°F): Approx 0.65mΩ			
Max.Chargr Current	60A			
Max.Discharge Current	1000A(5s)			
Short Circuit Current	3000A			
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

Long Time Dscharge Capacity

F.V / TIME	5min	10min	15min	30min	1h	2h	3h	4h	5h	8h	10h
1.60V	462	318	293	236	159	111	84	70	57	39	32
1.65V	433	292	267	223	154	109	82	69	56	38	31
1.70V	366	250	237	205	145	106	81	68	54	37	31
1.75V	325	230	216	186	137	102	79	66	54	37	30
1.80V	295	217	197	159	126	97	77	65	52	36	30
1.85V	216	166	153	131	104	86	70	60	50	35	28
1.90V	138	106	103	96	81	70	59	51	44	31	26

Capacity (Ah)	C ₁₀	C ₂₀	C ₂₄	C ₄₈	C ₇₂	C ₁₀₀	C ₁₂₀	C ₂₄₀
	300	329	338	372	390	405	411	420
Final Voltage	1.80V							

Constant Power Discharge Characteristics:W/caell 20°C

Parameters Settings

F.V / TIME	5min	10min	15min	30min	1h	2h	3h	4h	5h	8h	10h
1.60V	762	541	502	410	280	198	152	128	104	72	60
1.65V	731	507	467	394	276	198	151	127	103	71	60
1.70V	640	442	421	367	263	194	150	126	102	71	59
1.75V	574	412	389	339	252	189	149	125	102	71	58
1.80V	534	395	360	293	235	184	147	124	101	70	57
1.85V	400	311	286	248	198	167	136	117	99	69	56
1.90V	265	205	200	188	160	138	117	102	87	63	52

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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