

OPzV2-490 2Volt 490Ah

OPzV Series Battery

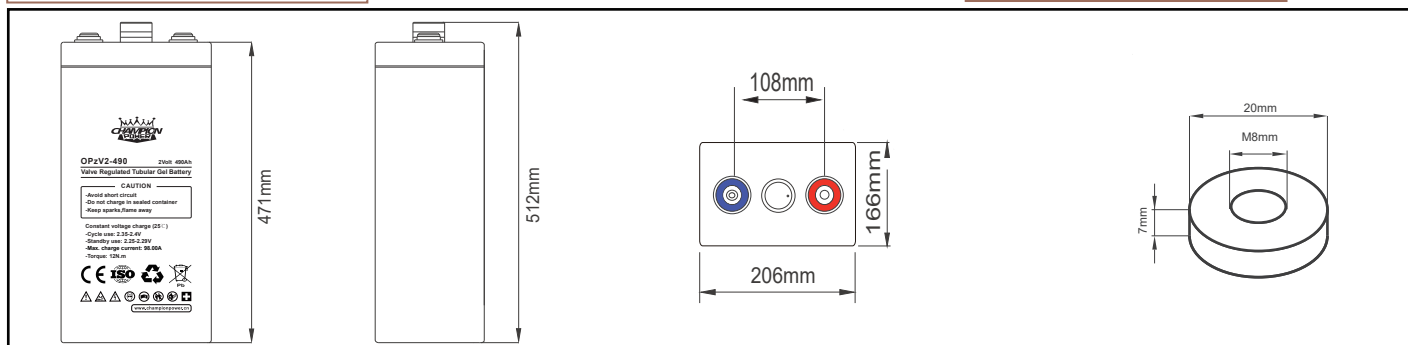
OPzV series adopts an Immobilized Gel and Tubular Positive Plate technology. It offers high reliability and stable performance. By using die-casted positive grid and patented active material formula, it exceeds the DIN standard values and offer 25+ years design life in float service. It is very suitable for cyclic use under extreme operating conditions. This series is recommended for telecom outdoor applications, solar system and other harsh environment applications.

Specification

Battery Model	Nominal Voltage	2V		
	Rated Capacity (10Hour rate)	490Ah		
Floating Design Life @ 20°C	25+ years			
Dimension	Length	Width	Height	Total Height
	166mm	206mm	471mm	512mm
Approx Weight	36.00Kg			
Internal Resistance	Full charged at 20°C(77°F): Approx 0.70mΩ			
Max.Charge Current	98A			
Max.Discharge Current	1960A(5s)			
Short Circuit Current	2548A			
Self Discharge	Approx. 2% per month @20°C			
Ambient Temperature	Discharge	-40~65°C		
	Charge	-30~65°C		
	Storage	-25~40°C		
Float Charge Voltage(20~25°C)	13.50~13.75V (-3mV/°C/cell)			
Equalize Charge Voltage(20~25°C)	14.10~14.40V(-5mV/°C/cell)			
Terminal Type	Female copper insert M8 (torque:10~12N.m)			
Container Material	ABS (UL94-V0 optional)			

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	754	520	479	386	260	181	137	115	93	63	52
1.65V	707	478	437	364	252	177	134	113	91	62	51
1.70V	597	409	388	334	237	172	132	110	89	61	50
1.75V	530	376	353	304	224	166	130	109	87	60	49
1.80V	482	355	322	259	206	159	126	106	86	59	49
1.85V	353	272	249	214	170	141	114	98	82	56	46
1.90V	225	173	169	158	133	114	96	84	71	51	42

Long Time Discharge Capacity

Capacity (Ah)	C ₁₀	C ₂₀	C ₂₄	C ₄₈	C ₇₂	C ₁₀₀	C ₁₂₀	C ₂₄₀
	490	527	553	595	615	626	632	647
Final Voltage	1.80V		1.85V					

Parameters Settings

Over voltage disconnect	2.45±0.01V/cell @ 20~25°C
Regulation/equalize voltage	2.40±0.01V/cell @ 20~25°C
Array reconnection voltage	2.25±0.005V/cell @ 20~25°C
Float voltage setting	2.27±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	-5mV/cell/°C

Constant Power Discharge Characteristics:W/caell 20°C

F.V / TIME	5min	10min	15min	30min	1h	2h	3h	4h	5h	8h	10h
1.60V	1245	884	820	669	457	324	248	209	170	117	98
1.65V	1195	828	763	643	451	323	247	208	168	116	97
1.70V	1045	722	688	600	430	317	245	206	167	116	96
1.75V	938	673	635	553	412	309	243	204	166	115	95
1.80V	873	645	588	478	384	300	240	202	165	115	93
1.85V	654	508	467	405	324	273	222	191	162	112	92
1.90V	433	335	327	307	261	226	191	167	142	102	85



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