

OPzV2-250 2Volt 250Ah

OPzV Series Battery

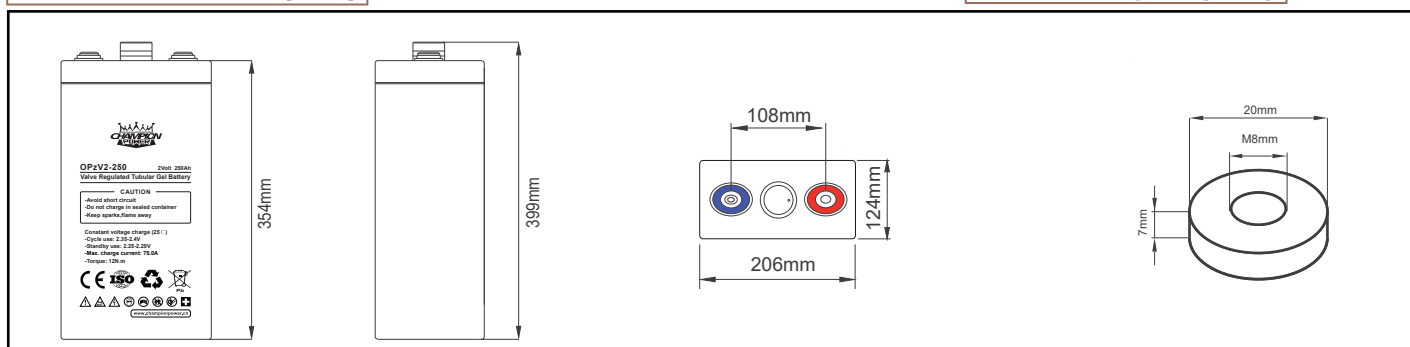
OPzV series adopts an Immobilized Gel and Tubular Positive Plate technology. It offers high reliability and stable performance. By using die-casted positive grid and patented active material formula, it exceeds the DIN standard values and offer 25+ years design life in float service. It is very suitable 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)	250Ah		
Floating Design Life @ 20°C	25+ years			
Dimension	Length	Width	Height	Total Height
	124mm	206mm	355mm	399mm
Approx Weight	21.00Kg			
Internal Resistance	Full charged at 20°C(77°F): Approx 0.87mΩ			
Max.Chargr Current	75A			
Max.Discharge Current	1000A(5s)			
Short Circuit Current	2300A			
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)	2.25~2.29V (-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	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	385	265	245	197	133	92	70	59	47	32	27
1.65V	361	244	223	186	129	91	69	57	46	32	26
1.70V	305	209	198	171	121	88	67	56	45	31	26
1.75V	270	192	180	155	114	85	66	55	45	31	25
1.80V	246	181	164	132	105	81	64	54	44	30	25
1.85V	180	139	127	109	87	72	58	50	42	29	24
1.90V	115	89	86	80	68	58	49	43	36	26	21

Long time discharge capacity for Solar & Wind applications

Capacity (Ah)	C ₁₀	C ₂₀	C ₂₄	C ₄₈	C ₇₂	C ₁₀₀	C ₁₂₀	C ₂₄₀
		250	275	282.5	305	315	319	322.5
Final Voltage	1.80V							

Solar & Wind applications 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	635	451	419	341	233	165	126	107	87	60	50
1.65V	610	423	389	328	230	165	126	106	86	59	50
1.70V	533	369	351	306	219	162	125	105	85	59	49
1.75V	479	343	324	282	210	158	124	104	85	59	49
1.80V	445	329	300	244	196	153	123	103	84	59	48
1.85V	334	259	238	207	165	139	113	98	82	57	47
1.90V	221	171	167	157	133	115	98	85	73	52	43



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