

OPzV2-300 2Volt 300Ah

OPzV Series Battery

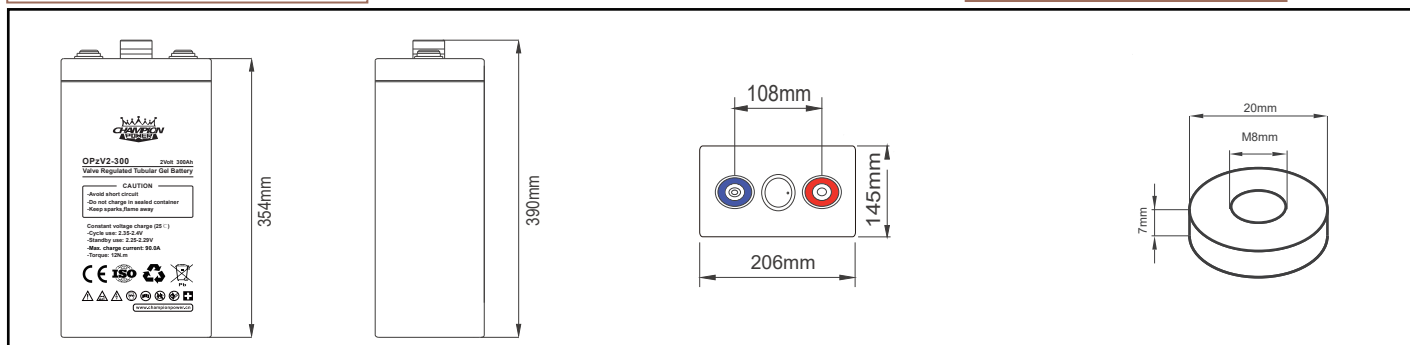
OPzV series adopts an Immobilized Gel and Tubular Positive Plate technology. It offers high reliability and stable performance. By using die-casted positive grid and patented active material formula, it exceeds the DIN standard values and offer 25+ years design life in float service. It is very suitable 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)	300Ah		
Floating Design Life @ 20°C	25+ years			
Dimension	Length	Width	Height	Total Height
	145mm	206mm	355mm	399mm
Approx Weight	25.00Kg			
Internal Resistance	Full charged at 20°C(77°F): Approx 0.76mΩ			
Max.Chargr Current	90A			
Max.Discharge Current	1500A(5s)			
Short Circuit Current	2600A			
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	461.80	318.48	293.40	236.40	159.12	110.88	83.76	70.26	56.76	38.64	32.04
1.65V	432.81	292.44	267.36	222.96	154.20	108.60	82.32	68.94	55.56	37.92	31.44
1.70V	365.64	250.44	237.36	204.60	144.96	105.60	80.88	67.62	54.36	37.32	30.84
1.75V	324.53	230.16	216.12	186.24	137.28	101.64	79.44	66.48	53.52	36.72	30.24
1.80V	295.23	217.08	196.92	158.76	126.12	97.32	77.28	64.86	52.44	36.12	30.00
1.85V	216.37	166.44	152.52	131.28	103.80	86.40	69.72	60.00	50.28	34.56	28.32
1.90V	138.06	106.20	103.20	96.48	81.48	70.08	58.80	51.18	43.56	31.08	25.68

Long Time Dscharge Capacity

Capacity (Ah)	C ₁₀	C ₂₀	C ₂₄	C ₄₈	C ₇₂	C ₁₀₀	C ₁₂₀	C ₂₄₀
	300	327	339	366	378	383	387	398
Final Voltage	1.80V							

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 roconnection 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 coefficienty	-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	761.96	541.32	502.20	409.68	279.96	198.48	151.56	127.87	104.16	71.88	60.00
1.65V	731.45	507.24	467.04	393.84	276.12	197.52	151.08	127.19	103.08	71.28	59.52
1.70V	639.87	442.20	421.44	367.08	263.16	194.28	150.24	125.91	102.24	71.04	59.04
1.75V	574.41	412.08	389.04	338.76	252.36	189.36	149.04	124.98	101.52	70.56	58.32
1.80V	534.36	395.04	360.00	292.92	235.20	183.84	147.24	123.88	100.92	70.32	57.24
1.85V	400.29	310.92	286.08	248.04	198.12	166.92	135.84	117.00	98.88	68.64	56.16
1.90V	265.08	205.08	199.92	187.92	159.84	138.48	117.12	102.36	87.12	62.64	51.96



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