

● Power safe OPzV

The 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 20+ 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, renewable energy systems and other harsh environment applications.

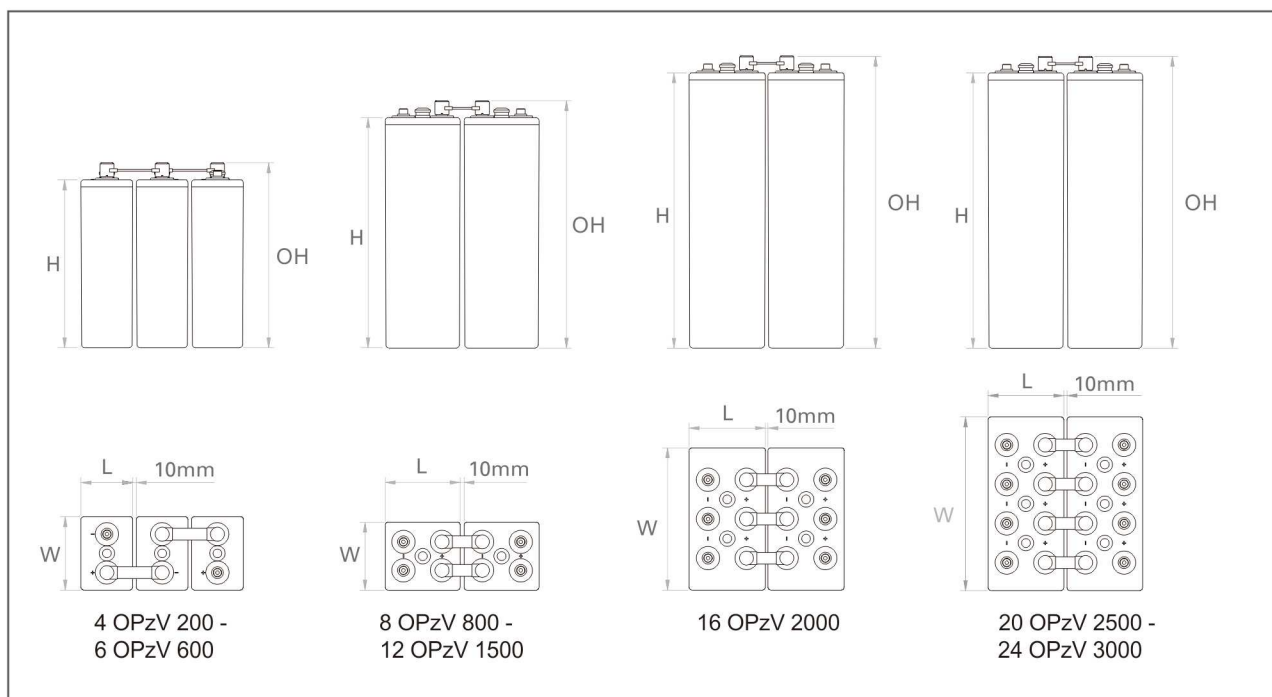


● SPECIFICATIONS

Nominal Voltage (V)	2
Designed Floating Life(20°C)	20+ Years
Terminal Type	Female Copper Insert M8 (torque:20N.m)
Max. Charge Current	0.2 CA
Max. Discharge Current (5S)	1.5 CA
Self Discharge	Approx. 2% per month @ 20°C
Ambient Temperature	Discharge: -40~65°C Charge: -30~65°C Storage: -25~45°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)
Container Material	ABS(UL94-V0 optional)



● DIMENSIONS



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CERTIFICATE

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Long time discharge capacity for Solar & Wind applications

Capacity	C ₂₀ (Ah)	C ₂₄ (Ah)	C ₄₈ (Ah)	C ₇₂ (Ah)	C ₁₀₀ (Ah)	C ₁₂₀ (Ah)	C ₂₄₀ (Ah)
Capacity coefficient C	1.076	1.088	1.212	1.248	1.275	1.264	1.28
such as 2500Ah	2690	2720	3030	3120	3188	3160	3200
Final Voltage	1.80V	1.85V					

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

● General Specifications

PowerSafe® OPzV Cell Types	Nominal Voltage (V)	Terminal Pairs	Nominal Capacity (Ah)	Nominal Dimensions					Short Circuit Current(A)	Internal Resistance (mΩ)
				10 hr rate to 1.80V @20°C	Length mm	Width mm	Height mm	Total Height mm		
4 OPzV 200	2	1	200	103	206	354	390	18	2195	0.95
5 OPzV 250	2	1	250	124	206	354	390	22.5	2737	0.76
6 OPzV 300	2	1	300	145	206	354	390	25	3175	0.66
5 OPzV 350	2	1	350	124	206	470	506	28	3410	0.61
6 OPzV 420	2	1	420	145	206	470	506	32	4043	0.51
7 OPzV 490	2	1	490	166	206	470	506	38	4607	0.45
6 OPzV 600	2	1	600	145	206	645	681	46	3796	0.55
8 OPzV 800	2	2	800	191	210	645	681	65	5200	0.40
10 OPzV 1000	2	2	1000	233	210	645	681	74	6460	0.32
12 OPzV 1200	2	2	1200	275	210	645	681	93	7675	0.27
12 OPzV 1500	2	2	1500	275	210	795	831	112	7510	0.28
16 OPzV 2000	2	3	2000	399	212	772	807	152	10048	0.21
20 OPzV 2500	2	4	2500	487	212	772	807	187	12606	0.17
24 OPzV 3000	2	4	3000	576	212	772	807	225	14964	0.14

Notes:

The electrical values shown in the table relate to loadings from a fully charged condition at ambient temperature of +20°C.

Height shown is overall height, including connectors and shrouds.

FINAL VOLTAGE SETTINGS RECOMMENDED ACCORDING TO THE DISCHARGE CURRENT

Discharge Current I (A)	I < 0.05C	0.05C ≤ I < 0.08C	0.08C ≤ I < 0.2C	0.2C ≤ I < 0.6C	0.6C ≤ I < 1.0C	1C ≤ I ≤ 2C
Final of Voltage	≥1.90 V	≥1.85 V	≥1.80 V	≥1.75 V	≥1.7 V	≥1.6 V

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