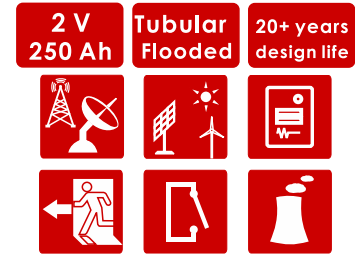


2V TUBULAR FLOODED SERIES BATTERY

The OPzS series is a traditional tubular plate flooded battery which offers 20+ 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 of reliability and security.

SPECIFICATIONS

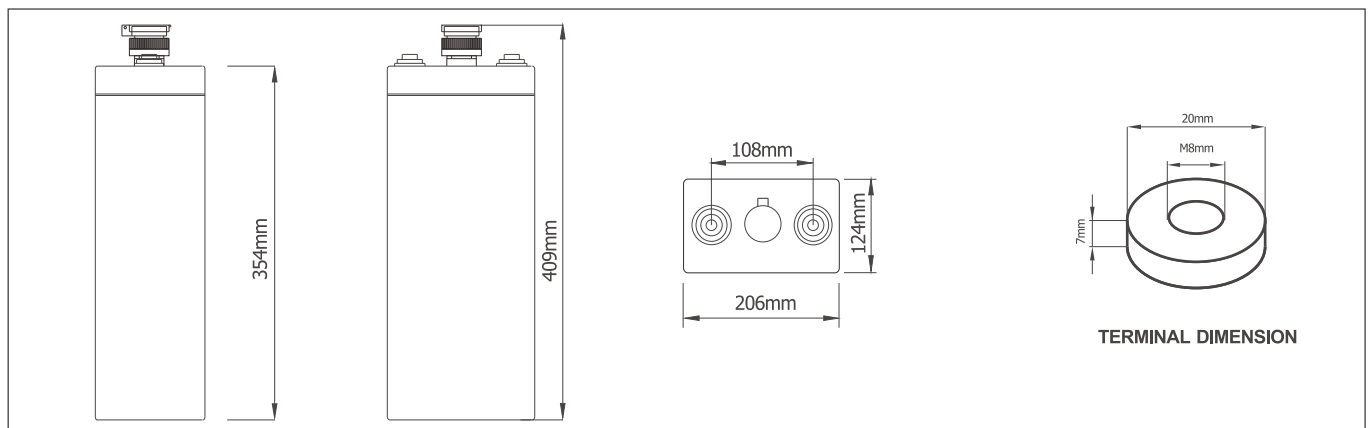
Nominal Voltage (V)	2
Designed Floating Life (20°C)	20+ Years
Nominal Capacity (20°C)	250 Ah @ C ₁₀ (to 1.80Vpc)
Dimensions	L124mm × W206mm × H409mm
Approx. Weight	Without electrolyte: 15.5Kg (34.2 lbs) With electrolyte: 20.5Kg (45.2 lbs)
Electrolyte	Diluted sulphuric acid of 1.240 g/cm ³ (20°C) Acid weight: 5.0Kg
Terminal Type	Female Copper Insert M8 (torque:10~12N.m)
Internal Resistance	Approx. 0.88mOhm (fully charged @ 20°C)
Max. Charge Current	50 A
Max. Discharge Current (5S)	1000 A
Short Circuit Current	2750 A
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	2.23V @25°C (-3mV / °C/ cell)
Equalize Charge Voltage	2.35V @25°C
Container Material	SAN



Complied standards

- IEC 60896-11
- DIN40736
- IEC61427
- Eurobat guide, long life
- BS6290 part 4
- UL1989

DIMENSIONS



BATTERY DISCHARGE TABLE

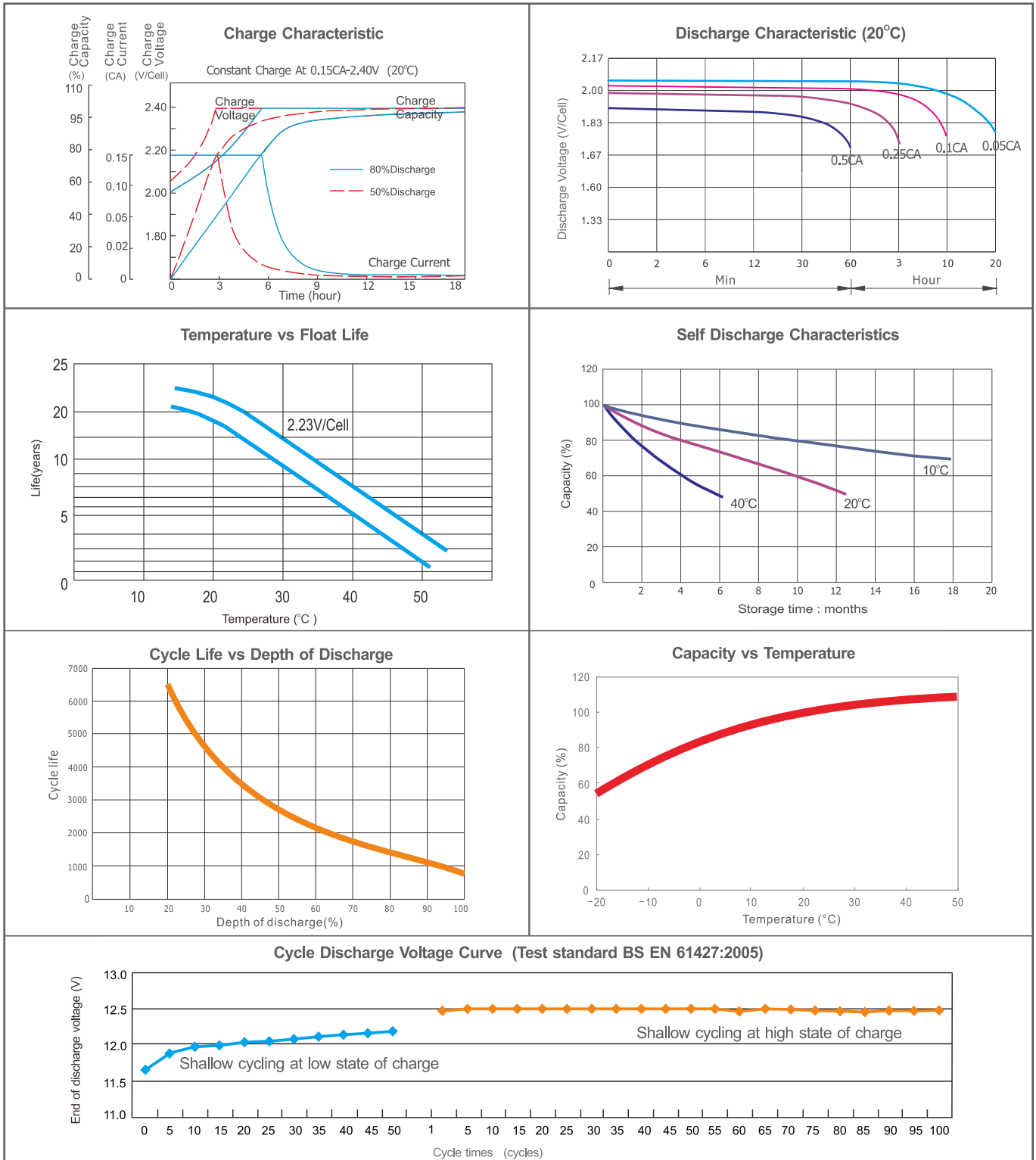
Constant Current Discharge Characteristics: Amps (20°C)

F.V./Time	5min	10min	15min	30min	1h	2h	3h	4h	5h	8h	10h	20h
1.90V	99.8	90.8	82.5	80.8	74.8	58.5	47.3	39.8	34.8	25.8	22.8	12.5
1.85V	108	103	102	101	85.0	64.8	52.3	44.0	40.8	27.3	23.8	13.1
1.80V	172	165	162	139	109	76.3	64.0	50.0	43.3	30.8	25.0	13.8
1.75V	207	198	192	159	122	82.5	66.3	52.0	44.5	31.3	25.8	14.4

Constant Power Discharge Characteristics: W/cell (20°C)

F.V./Time	5min	10min	15min	30min	1h	2h	3h	4h	5h	8h	10h	20h
1.90V	194	176	158	153	144	125	103	86.8	74.5	54.3	47.0	25.2
1.85V	209	201	195	190	164	141	108	96.5	82.8	59.3	51.0	27.5
1.80V	334	320	275	254	214	171	137	112	94.5	66.8	55.0	28.5
1.75V	401	384	282	256	216	178	145	118	98.8	67.8	57.3	29.2

CHARACTERISTICS



Long time discharge capacity for Solar & Wind applications

Capacity	C ₂₄ (Ah)	C ₄₈ (Ah)	C ₇₂ (Ah)	C ₁₀₀ (Ah)	C ₁₂₀ (Ah)	C ₂₄₀ (Ah)
OPzS2-250	283	310	325	338	343	350
Final Voltage	1.85 V					

Solar & Wind applications parameters settings

Over voltage disconnect:	2.47±0.01V/cell @ 25°C
Regulation/equalize voltage:	2.40±0.01V/cell @ 25°C
Array reconnection voltage:	2.23±0.005V/cell @ 25°C
Float voltage setting:	2.25±0.005V/cell @ 25°C
Low voltage alarm voltage:	1.95±0.005V/cell @ 25°C
Low voltage disconnect:	1.90±0.005V/cell @ 25°C
Load reconnect voltage:	2.09±0.01V/cell @ 25°C
Temp. compensate coefficienty:	-4mV/cell/°C

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Note: All above information shall be changed without prior notice, CHISEN reserves the right to explain and update 2/2