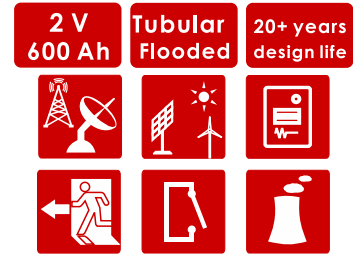


2V TUBULAR FLOODED SERIES BATTERY

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

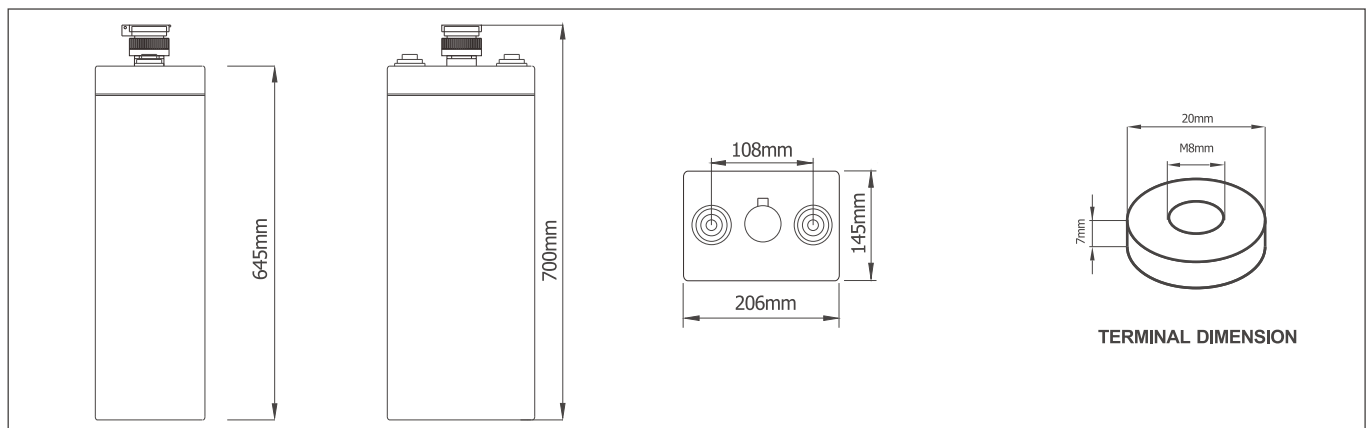
Nominal Voltage (V)	2
Designed Floating Life (20°C)	20+ Years
Nominal Capacity (20°C)	600 Ah @ C ₁₀ (to 1.80Vpc)
Dimensions	L145mm × W206mm × H700mm
Approx. Weight	Without electrolyte: 32.0Kg (75.0 lbs) With electrolyte: 42.8Kg (94.4 lbs)
Electrolyte	Diluted sulphuric acid of 1.240 g/cm ³ (20°C) Acid weight: 10.8Kg
Terminal Type	Female Copper Insert M8 (torque:10~12N.m)
Internal Resistance	Approx. 0.60mOhm (fully charged @ 20°C)
Max. Charge Current	120 A
Max. Discharge Current (5S)	1500 A
Short Circuit Current	3700 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

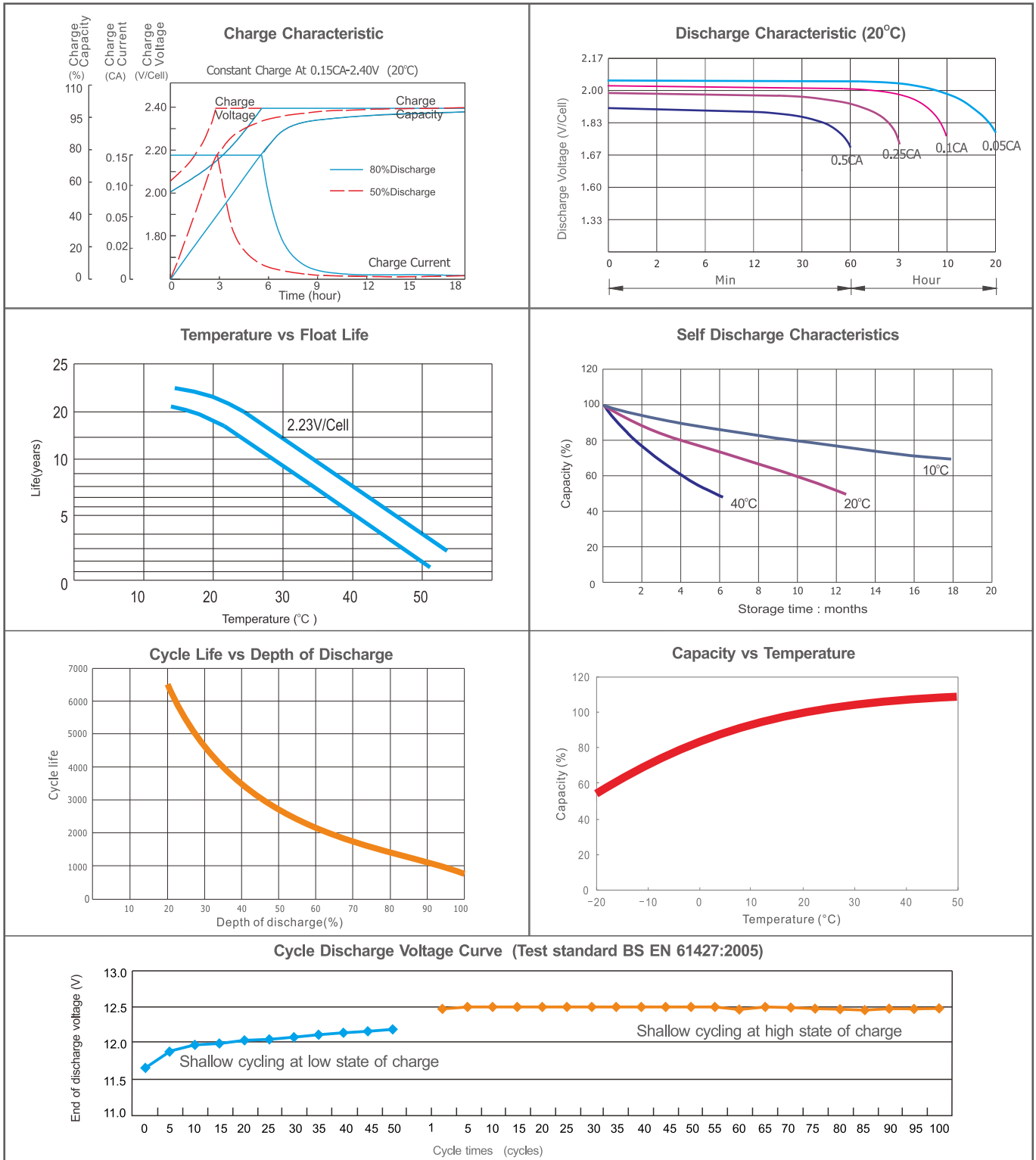
Constant Current Discharge Characteristics: Amps (20°C)

F.V./Time	5m in	10m in	15m in	30m in	1h	2h	3h	4h	5h	8 h	10 h	20h
1.90V	239	218	198	194	179	140	113	95.4	83.4	61.8	54.6	30.0
1.85V	259	248	244	242	204	155	125	106	97.8	65.4	57.0	31.4
1.80V	413	396	388	334	262	183	154	120	104	73.8	60.0	33.0
1.75V	496	475	461	382	292	198	159	125	107	75.0	61.8	34.7

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

F.V./Time	5m in	10m in	15m in	30m in	1h	2h	3h	4h	5h	8 h	10 h	20h
1.90V	464	422	379	367	345	300	247	208	179	130	113	60.5
1.85V	502	481	467	455	392	339	258	232	199	142	122	65.9
1.80V	801	769	659	610	514	411	328	268	227	160	132	68.5
1.75V	961	922	676	614	518	427	347	284	237	163	137	70.1

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)
OPzS2-600	678	744	780	810	822	840
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 coefficient:	-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