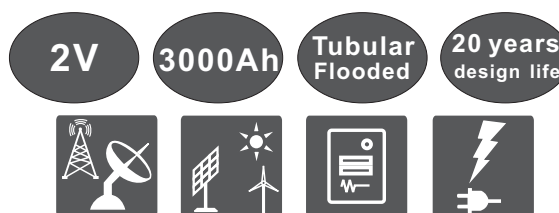


The OPzS series is a traditional tubular plate flooded battery which offers 20+ years design life according to the standard IEC60896-11. With a new design and technical improvement, it offers maximum efficiency and reliability for the widest variety of applications. This series is highly suited for all standby power applications that require the highest levels of reliability and security.

Technical drawings of the battery showing dimensions:

- Front View:** A rectangular battery with a height of 77mm.
- Side View:** A rectangular battery with a height of 83mm.
- Terminal View:** A top-down view of the terminal block. The overall width is 212mm and the overall height is 57mm. The terminal array is 128mm wide and 48mm high. Individual terminals are 16mm wide and 16mm high. There are 16 terminals in total, arranged in a 4x4 grid.
- Terminal Dimension:** A detailed view of the terminal block showing a 24mm wide terminal area and a 16mm high terminal area.



Nominal Voltage (V)	2
Designed Floating Life (20°C)	20+ Years
Nominal Capacity (20°C)	2500 Ah @ C10 (to 1.80Vpc)
Demensions	L576mm×W212mm×H826mm
Approx. Weight	Without electrolyte: 157Kg (346 lbs) With electrolyte: 220Kg (485 lbs)
Electrolyte	Diluted sulphuric acid of 1.240 g/cm³ (20°C) Acid weight: 63Kg
Terminal Type	Female Copper Insert M8 (torque:10~12N.m)
Internal Resistance	Approx. 0.2mOhm (fully charged @ 20°C)
Max. Charge Current	500 A
Max. Discharge Current (5S)	15000 A
Short Circuit Current	19000 A
Self Discharge	Approx. 3% per month @ 20°C
Ambient Temperature	Discharge: -20~50°C Charge: -15~50°C Storage: 0~25°C
Float Charge Voltage (20~25°C)	2.21-2.25V (-3mV / °C/ cell)
Equalize Charge Voltage (20~25°C)	2.35-2.40V (-5mV / °C/ cell)
Container Material	SAN



ISO9001



ISO14001



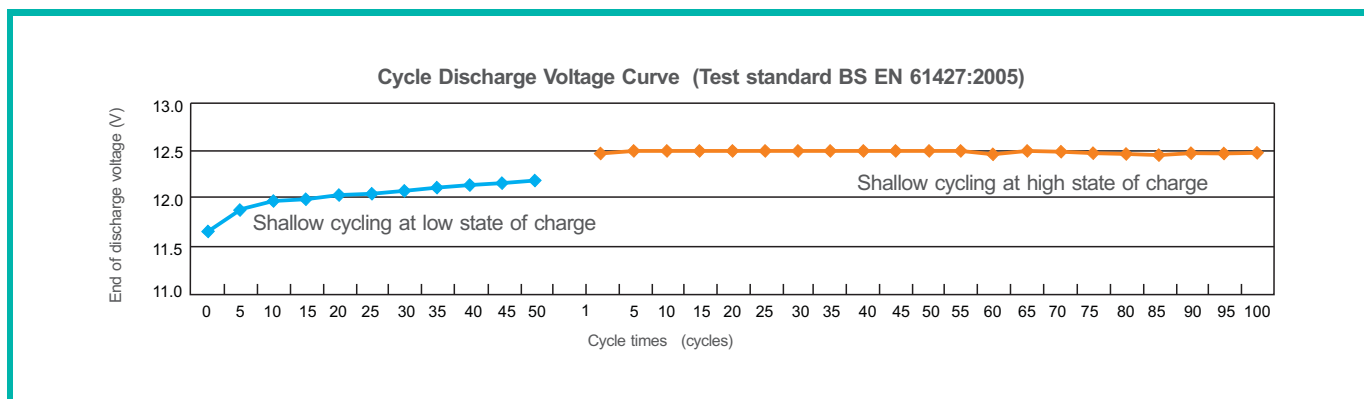
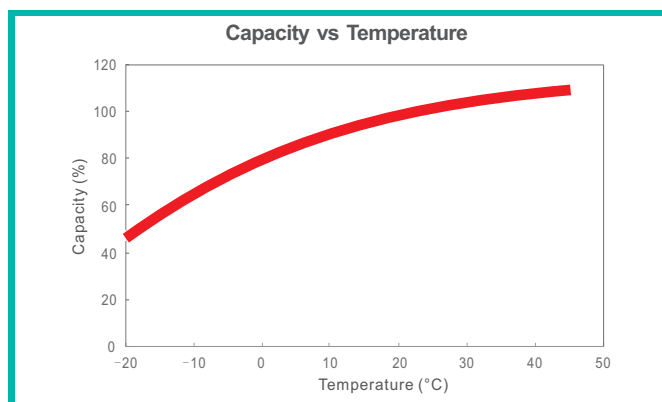
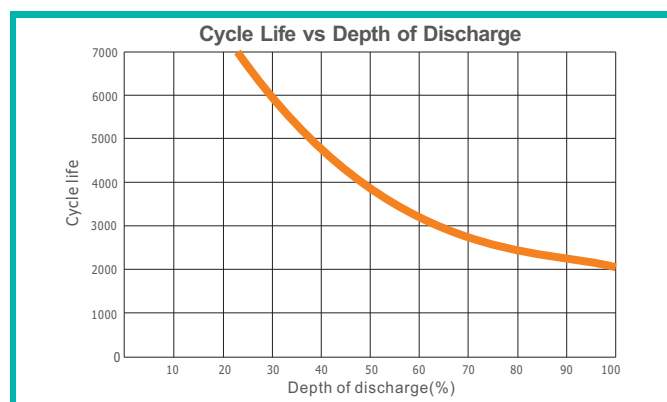
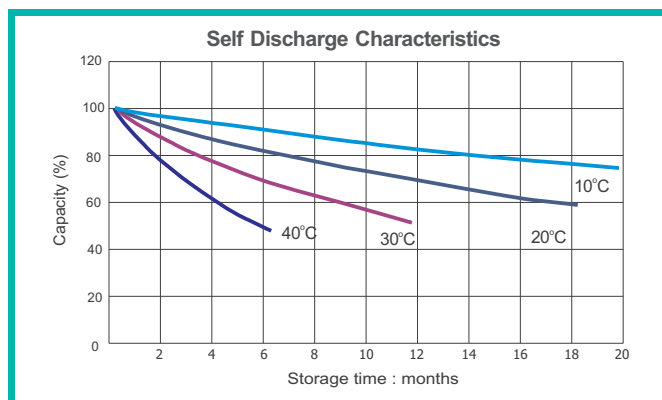
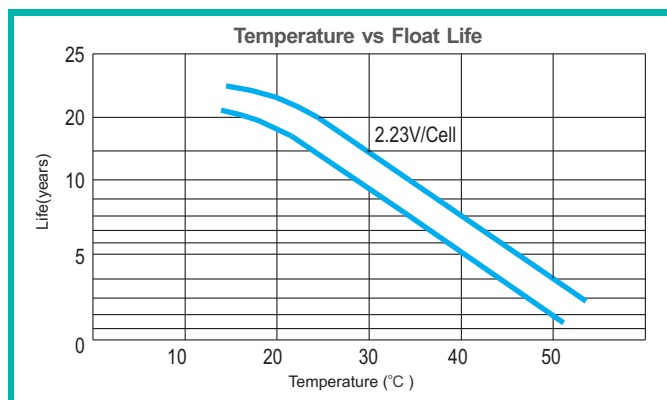
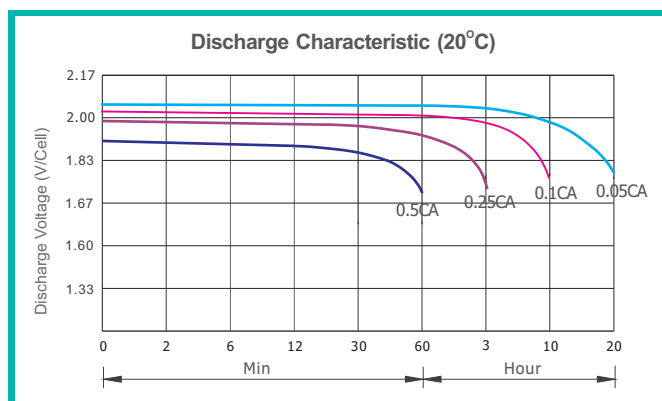
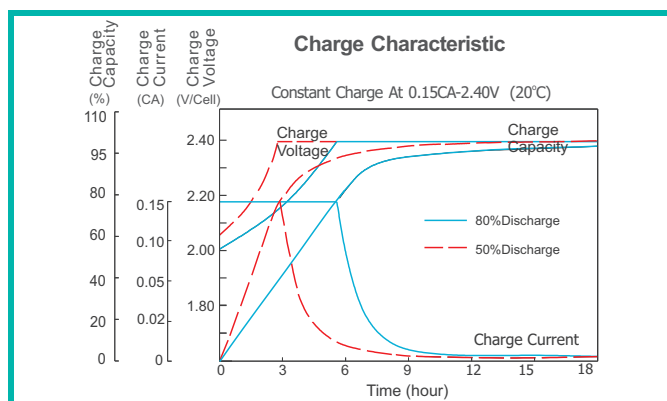
- IEC 60896-21/22
- DIN40742
- IEC61427
- YD/T1360
- Eurobat guide, long life
- BS6290 part 4
UI 1989

Constant Current Discharge Characteristics: Amps (20°C)

F.V./Time	5min	10min	15min	30min	1h	2h	3h	4h	5h	8 h	10 h	20h	48h	72h	100 h	120h
1.90V	958	871	792	775	897	702	567	477	417	309	273	150	74.1	51.8	38.1	32.4
1.85V	1034	991	974	970	1020	777	627	528	489	327	285	157	77.3	54.0	40.5	34.2
1.80V	1651	1584	1550	1334	1311	915	768	600	519	369	300	165	81.4	56.9	42.0	35.4
1.75V	1982	1901	1843	1526	1461	990	795	624	534	375	309	173	83.8	58.6	42.9	36.0

F.V./Time	5min	10min	15min	30min	1h	2h	3h	4h	5h	8 h	10 h	20h	48h	72h	100 h	120h
1.90V	1974	1795	1612	1558	1725	1500	1233	1041	894	651	564	302	153	107	82.6	68.9
1.85V	2132	2045	1986	1935	1962	1695	1290	1158	993	711	612	329	166	116	86.0	71.8
1.80V	3404	3267	2800	2591	2571	2055	1641	1341	1134	801	660	342	171	120	88.1	73.5
1.75V	4085	3919	2871	2609	2592	2136	1737	1419	1185	813	687	351	177	124	88.9	74.2

CHARACTERISTICS



FINAL VOLTAGE SETTINGS RECOMMENDED ACCORDING TO THE DISCHARGE CURRENT

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