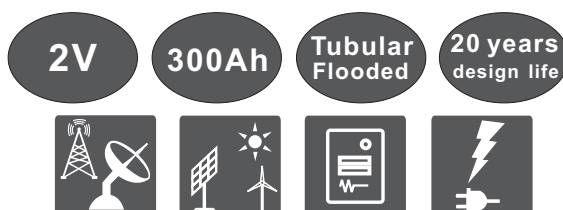
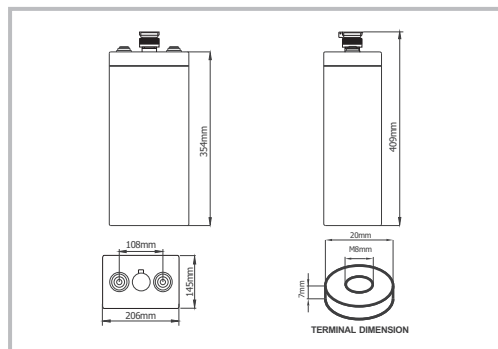


2V TUBULAR FLOODED SERIES BATTERY

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.

DIMENSIONS



SPECIFICATIONS

Nominal Voltage (V)	2
Designed Floating Life (20°C)	20+ Years
Nominal Capacity (20°C)	300 Ah @ C ₁₀ (to 1.80Vpc)
Dimensions	L145mm × W206mm × H409mm
Approx. Weight	Without electrolyte: 18.5Kg (40.8 lbs) With electrolyte: 24.5Kg (48.5 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. 0.90mOhm (fully charged @ 20°C)
Max. Charge Current	60 A
Max. Discharge Current (5S)	1500 A
Short Circuit Current	2600 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



Complied standards

- IEC 60896-21/22
- DIN40742
- IEC61427
- YD/T1360
- Eurobat guide, long life
- BS6290 part 4
- UL1989

BATTERY DISCHARGE TABLE

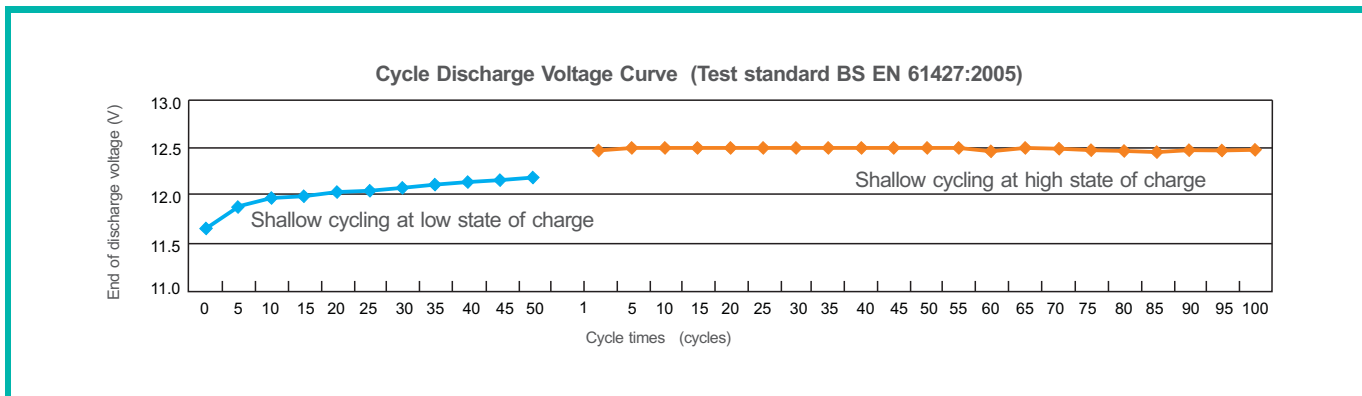
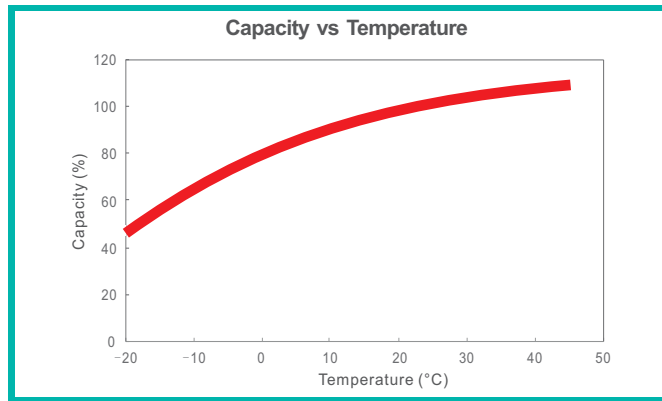
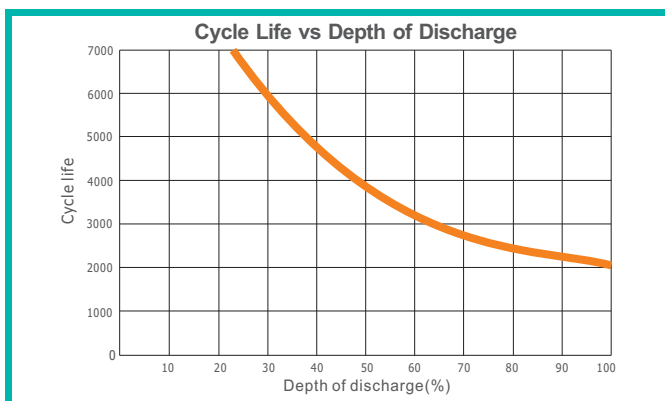
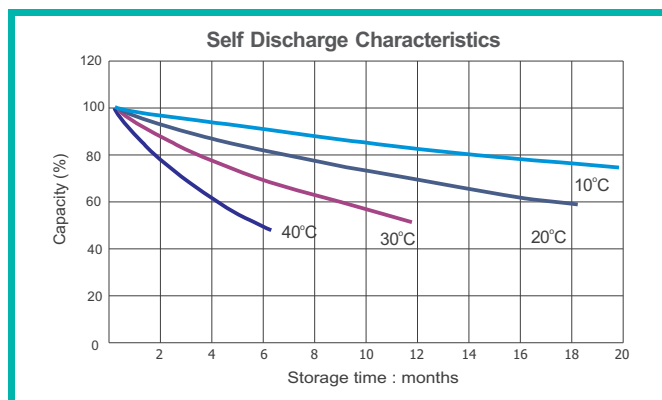
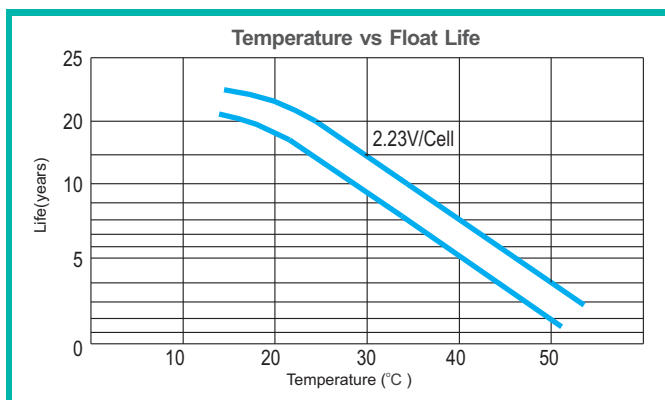
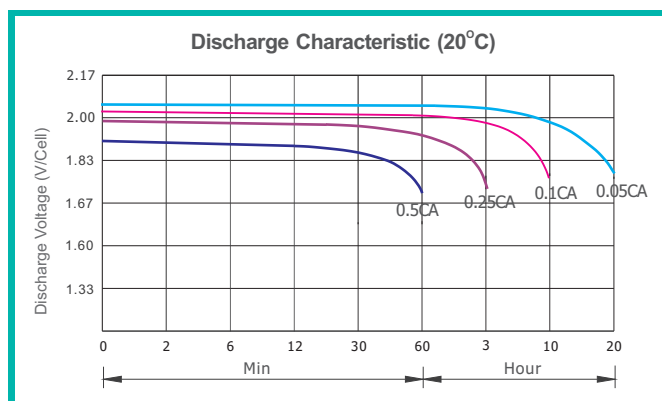
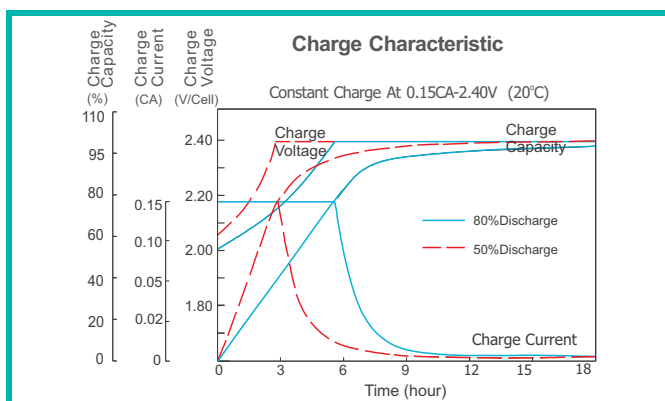
Constant Current Discharge Characteristics: Amps (20°C)

F.V./Time	5min	10min	15min	30min	1h	2h	3h	4h	5h	8h	10h	20h	48h	72h	100h	120h
1.90V	120	109	99.0	96.9	89.7	70.2	56.7	47.7	41.7	30.9	27.3	15.0	7.41	5.18	3.81	3.24
1.85V	129	124	122	121	102	77.7	62.7	52.8	48.9	32.7	28.5	15.7	7.73	5.40	4.05	3.42
1.80V	206	198	194	167	131	91.5	76.8	60.0	51.9	36.9	30.0	16.5	8.14	5.69	4.20	3.54
1.75V	248	238	230	191	146	99.0	79.5	62.4	53.4	37.5	30.9	17.3	8.38	5.86	4.29	3.60

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

F.V./Time	5min	10min	15min	30min	1h	2h	3h	4h	5h	8h	10h	20h	48h	72h	100h	120h
1.90V	232	211	190	183	173	150	123	104	89.4	65.1	56.4	30.2	15.3	10.7	8.26	6.89
1.85V	251	241	234	228	196	170	129	116	99.3	71.1	61.2	32.9	16.6	11.6	8.60	7.18
1.80V	401	384	329	305	257	206	164	134	113	80.1	66.0	34.2	17.1	12.0	8.81	7.35
1.75V	481	461	338	307	259	214	174	142	119	81.3	68.7	35.1	17.7	12.4	8.89	7.42

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