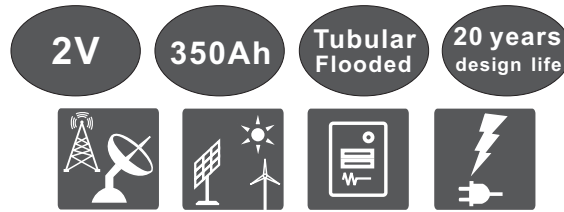
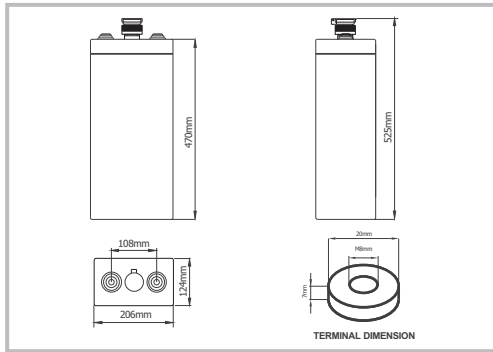


## 2V TUBULAR FLOODED SERIES BATTERY

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)	350 Ah @ C10 (to 1.80Vpc)
Dimensions	L124mm × W206mm × H525mm
Approx. Weight	Without electrolyte: 20.5Kg (45.2 lbs) With electrolyte: 27.0Kg (59.5 lbs)
Electrolyte	Diluted sulphuric acid of 1.240 g/cm <sup>3</sup> (20°C) Acid weight: 6.5Kg
Terminal Type	Female Copper Insert M8 (torque:10~12N.m)
Internal Resistance	Approx. 0.85mOhm (fully charged @ 20°C)
Max. Charge Current	70 A
Max. Discharge Current (5S)	1500 A
Short Circuit Current	2900 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**

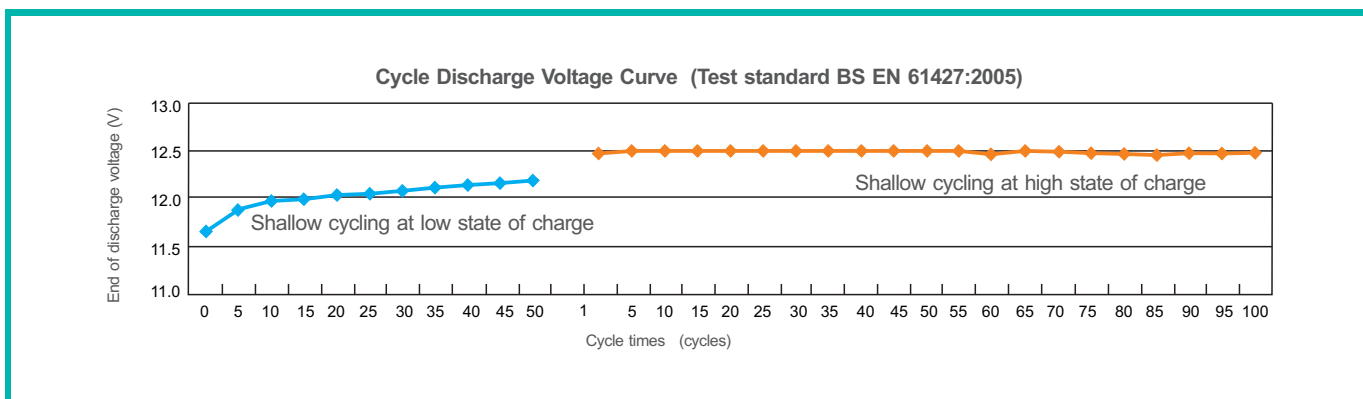
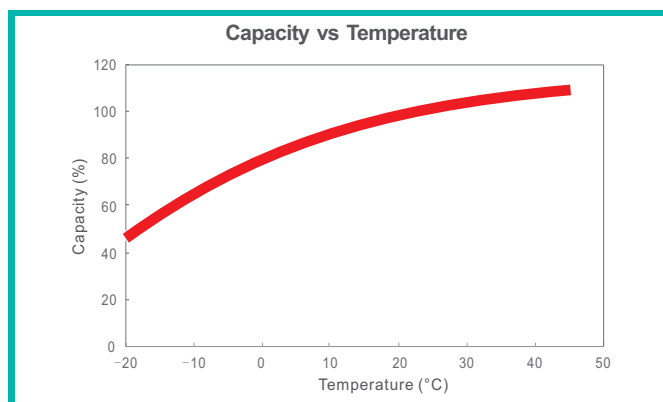
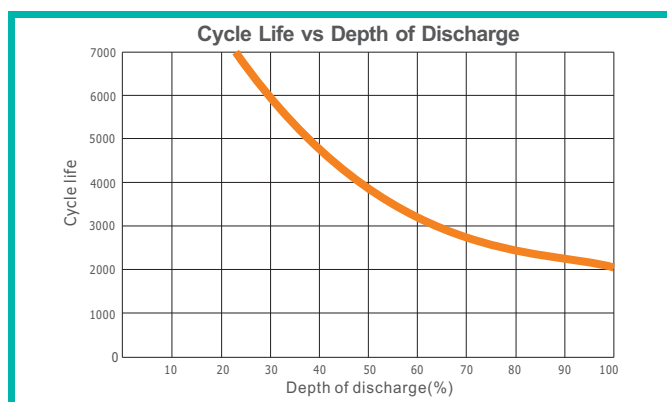
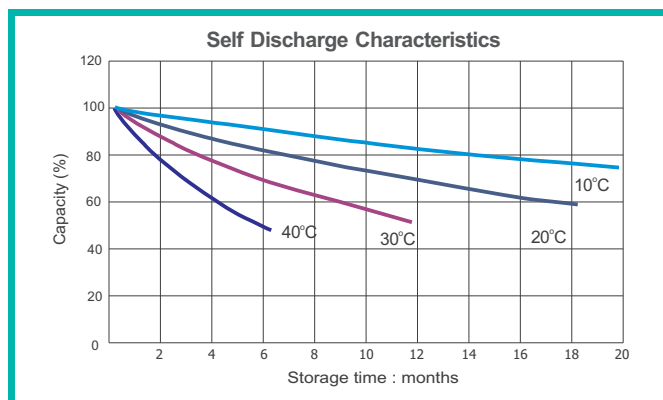
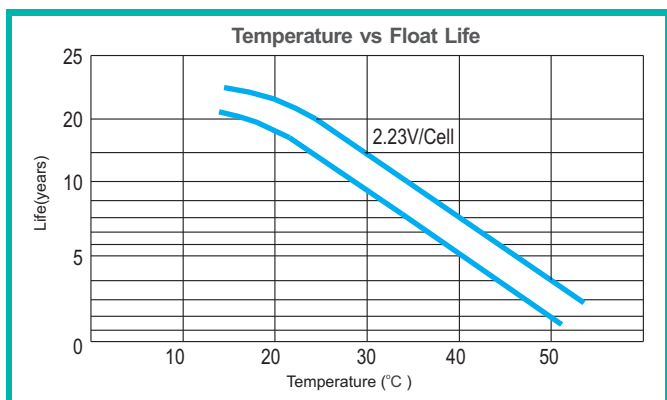
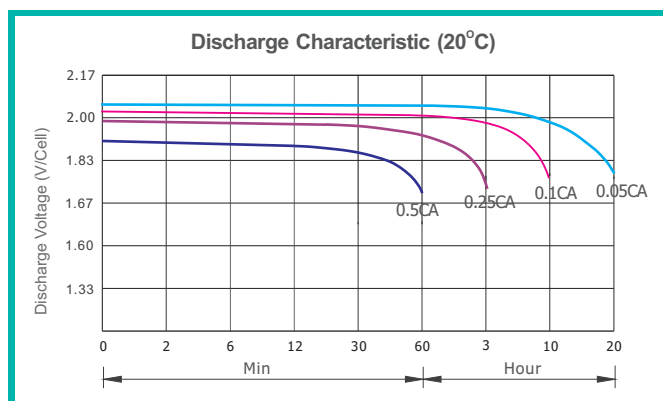
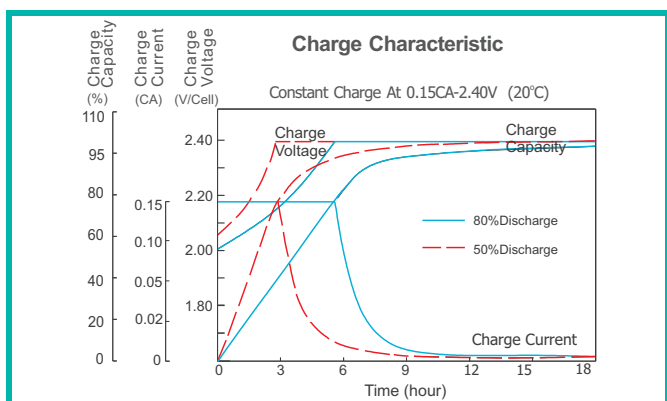
- IEC 60896-21/22
- DIN40742
- IEC61427
- YD/T1360
- Eurobat guide, long life
- BS6290 part 4
- UL1989

### 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	140	127	116	113	105	81.9	66.2	55.7	48.7	36.1	31.9	17.5	8.64	6.04	4.45	3.78
1.85V	151	145	142	141	119	90.7	73.2	61.6	57.1	38.2	33.3	18.3	9.02	6.30	4.73	3.99
1.80V	241	231	226	195	153	107	89.6	70.0	60.6	43.1	35.0	19.3	9.49	6.64	4.90	4.13
1.75V	289	277	269	223	170	116	92.8	72.8	62.3	43.8	36.1	20.2	9.78	6.83	5.01	4.20

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	271	246	221	214	201	175	144	121	104	76.0	65.8	35.3	17.8	12.5	9.63	8.04
1.85V	293	281	273	266	229	198	151	135	116	83.0	71.4	38.4	19.4	13.5	10.0	8.37
1.80V	467	448	384	356	300	240	191	156	132	93.5	77.0	39.9	19.9	14.0	10.3	8.58
1.75V	561	538	394	358	302	249	203	166	138	94.9	80.2	40.9	20.7	14.5	10.4	8.66

## 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	$\geq 1.90$ Vpc	$\geq 1.85$ Vpc	$\geq 1.80$ Vpc	$\geq 1.75$ Vpc	$\geq 1.7$ Vpc	$\geq 1.6$ Vpc