



# OPzS Series-Flooded Battery

## 6 OPzS300(2V300Ah)

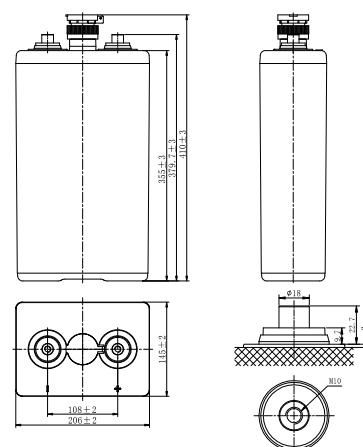


### Specifications

Rated Voltage	2V	
Nominal Capacity	$C_{10}, 1.80V/cell$	300.0Ah
Dimension	Length	145±2mm (5.71 inches)
	Width	206±2mm (8.11 inches)
	Container Height	355±3mm (13.98 inches)
	Total Height	410±3mm (16.14 inches)
Approx Weight	Without Electrolyte	18.5kg (40.8lbs)
	With Electrolyte	24.5 kg (54.0lbs)
Terminal	M10	
Container Material	SAN transparent container	
Rated Capacity (25°C)	300.0 Ah	(10hr, 30.0A, 1.80V/cell)
	266.5 Ah	(5hr, 53.3A, 1.75V/cell)
	231.3 Ah	(3hr, 77.1A, 1.75V/cell)
	171.3 Ah	(1hr, 171.3A, 1.60V/cell)
Max. Discharge Current	2400A (5s)	
Internal Resistance (25°C)	Approx 1.00mΩ	
Operating Temp. Range	Discharge	-15 ~ 55°C (5 ~ 131°F)
	Charge	0 ~ 45°C (32 ~ 113°F)
	Storage	-15 ~ 45°C (5 ~ 113°F)
Nominal Operating Temp. Range	25±3°C (77±5°F)	
Cycle Use	Initial Charging Current less than 0.1CA. Voltage	
	2.35V~2.40V at 20°C(68°F)Temp. Coefficient -3mV/°C	
Standby Use	Initial Charging Current less than 0.1CA. Voltage	
	2.25V~2.30V at 20°C(68°F)Temp. Coefficient -2mV/°C	
Effect of temp. to Capacity	40°C (104°F)	103%
	25°C (77°F)	100%
	0°C (32°F)	86%
Self Discharge	≤4% per month at 25°C	



### Layout



### Constant Current Discharge (Amperes) at 20 °C (68°F)

F.V/Time	30 min	45min	1h	1.5h	2h	3h	4h	5h	6h	8h	10h	20h
1.60V/cell	227.4	197.6	171.3	135.0	111.6	83.4	67.1	56.7	49.1	38.8	32.1	17.4
1.65V/cell	213.6	190.0	165.6	131.6	109.1	82.0	66.1	55.9	48.4	38.4	31.7	17.2
1.70V/cell	202.8	179.2	159.3	127.4	106.5	79.6	64.6	54.7	47.5	37.7	31.2	17.0
1.75V/cell	190.2	170.8	151.2	121.4	102.0	77.1	62.6	53.3	46.4	37.1	30.7	16.7
1.80V/cell	169.2	154.0	139.2	113.8	95.9	73.2	60.0	51.1	44.7	36.1	30.0	16.4
1.85V/cell	135.0	127.6	119.1	101.2	87.0	67.0	55.5	47.9	42.1	34.3	28.7	15.8

### Constant Power Discharge (Watts/cell) at 20 °C (68°F)

F.V/Time	30 min	45min	1h	1.5h	2h	3h	4h	5h	6h	8h	10h	20h
1.60V/cell	388.2	345.8	304.1	242.7	202.9	152.7	123.9	105.5	91.9	73.0	60.6	33.0
1.65V/cell	372.5	336.4	296.5	237.8	199.3	150.9	122.7	104.6	91.1	72.5	60.2	32.8
1.70V/cell	358.6	320.6	287.3	231.7	195.5	147.2	120.3	102.7	89.7	71.5	59.4	32.5
1.75V/cell	341.9	308.9	275.3	222.4	188.6	143.5	117.3	100.5	87.8	70.6	58.7	32.1
1.80V/cell	308.3	282.7	256.7	210.9	178.8	137.3	112.9	96.8	85.1	69.0	57.7	31.7
1.85V/cell	250.2	237.7	222.9	190.1	164.1	127.0	105.6	91.5	80.8	66.1	55.7	30.7



# OPzS Series-Flooded Battery

## 6 OPzS300(2V300Ah)



### Applications

- Telecommunications
- Buoy lighting
- Standby power
- Railway signalling
- Emergency lighting systems
- Alternative power (solar, wind)
- Maritime standby power on ships and ashore

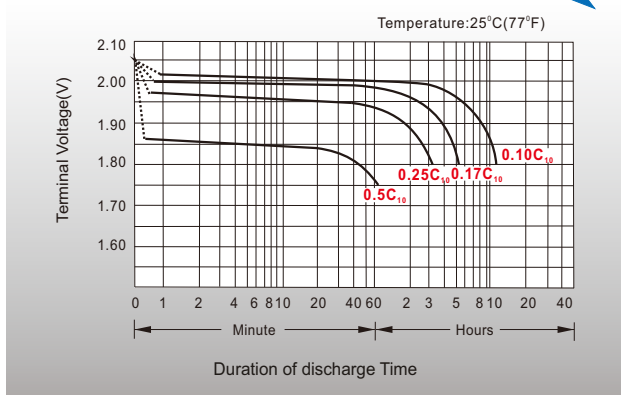
### General Features

- 20 years design life(25°C)
- Lower self discharge
- Higher thermal capacity, no thermal runaway will occur
- Superior deep cycle performance
- Wide operation temperature range

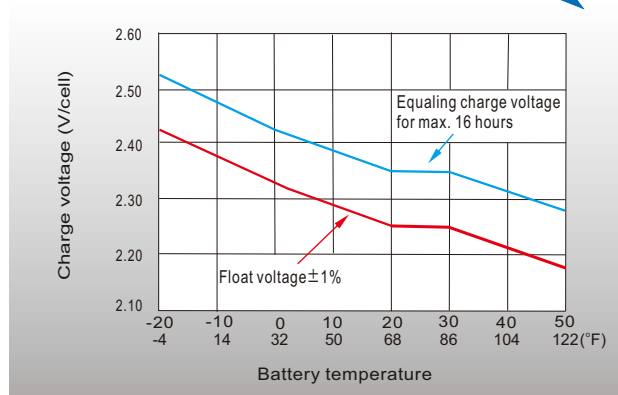
### Standards

- Compliance with IEC60896, DIN 40736 standards
- Manufactured in Leoch@IATF 16949, ISO 45001,ISO 9001 and ISO 14001 certified production facilities

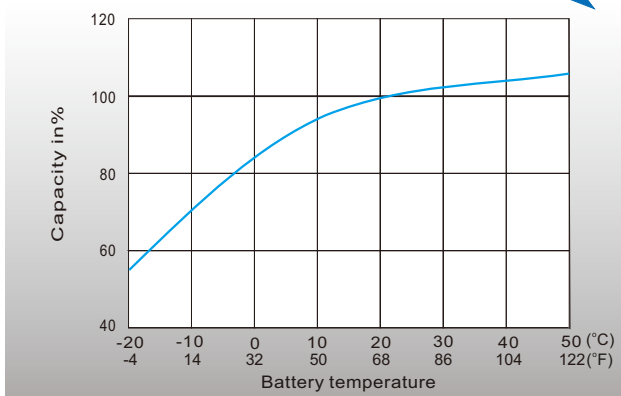
### Discharge Characteristics



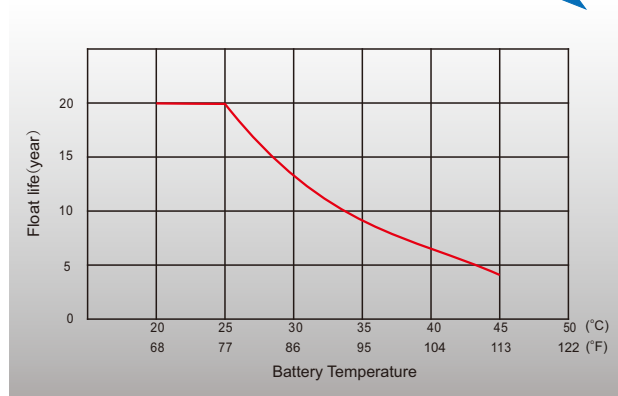
### Charge voltage Vs ambient temperature curve



### Discharge capacity Vs Ambient temperature curve (I10A)



### Float Service Life



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