



# OPzS Series-Flooded Battery

## 12V 30PzS150(12V150Ah)

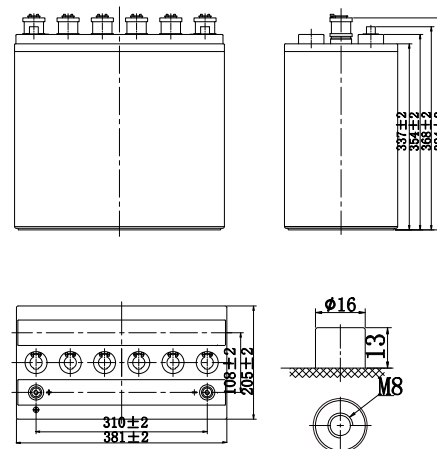


### Specifications

Rated Voltage	12V	
Nominal Capacity	$C_{10}, 1.80V/cell$	150.0Ah
Dimension	Length	381±2mm (15.0 inches)
	Width	205±2mm (8.07 inches)
	Container Height	337±2mm (13.27 inches)
	Total Height	384±2mm (15.12 inches)
Approx Weight	Without Electrolyte	53.0kg (116.8lbs)
	With Electrolyte	67.4 kg (148.6lbs)
Terminal	M8	
Container Material	SAN transparent container	
Rated Capacity (25°C)	150.0 Ah	(10hr, 15.0A, 1.80V/cell)
	124.0 Ah	(5hr, 24.8A, 1.75V/cell)
	105.9 Ah	(3hr, 35.3A, 1.75V/cell)
	80.6 Ah	(1hr, 80.6A, 1.60V/cell)
Max. Discharge Current	1200A (5s)	
Internal Resistance (25°C)	Approx 9.65mΩ	
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	15min	30min	1h	2h	3h	4h	5h	8h	10h	20h
1.85V/cell	110.5	88.0	61.5	40.0	31.2	25.9	22.4	16.4	14.0	7.51
1.80V/cell	130.3	97.7	66.5	43.2	33.4	27.6	23.8	17.6	15.0	8.03
1.75V/cell	148.8	105.7	70.7	45.8	35.3	28.9	24.8	18.1	15.3	8.13
1.70V/cell	162.0	113.0	74.4	47.7	36.5	30.0	25.7	18.6	15.5	8.24
1.65V/cell	173.3	118.8	78.0	49.1	37.3	30.6	26.3	18.9	15.8	8.33
1.60V/cell	182.9	123.7	80.6	50.6	38.2	31.2	26.8	19.1	16.0	8.44

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

F.V/Time	15min	30min	1h	2h	3h	4h	5h	8h	10h	20h
1.85V/cell	209.0	168.8	119.2	78.1	61.1	50.8	44.0	32.4	27.6	14.9
1.80V/cell	241.5	184.2	127.1	83.4	64.6	53.4	46.3	34.3	29.3	15.7
1.75V/cell	272.1	196.9	133.3	87.1	67.2	55.3	47.5	34.8	29.4	15.7
1.70V/cell	292.4	208.4	139.1	89.9	69.0	57.0	48.9	35.5	29.7	15.8
1.65V/cell	308.8	216.5	144.5	91.7	70.0	57.7	49.6	35.8	29.9	15.8
1.60V/cell	320.2	222.0	147.2	93.4	70.7	57.9	49.7	35.7	30.0	15.8



# OPzS Series-Flooded Battery

## 12V 30PzS150(12V150Ah)



### Applications

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

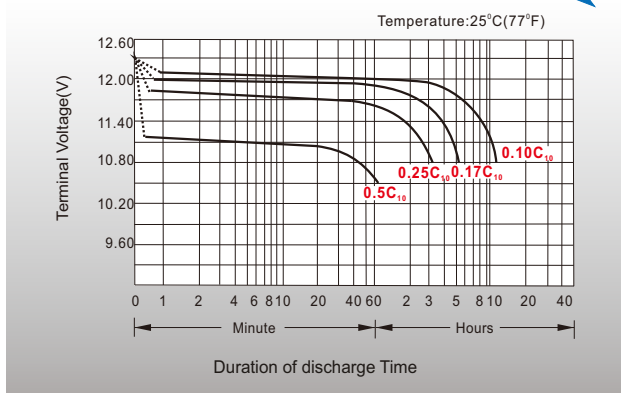
### General Features

- 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

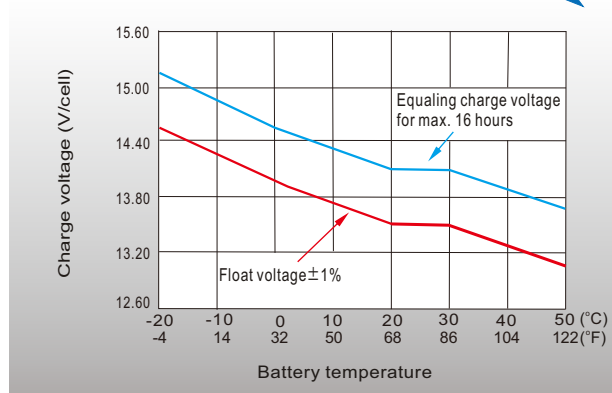
### Standards

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

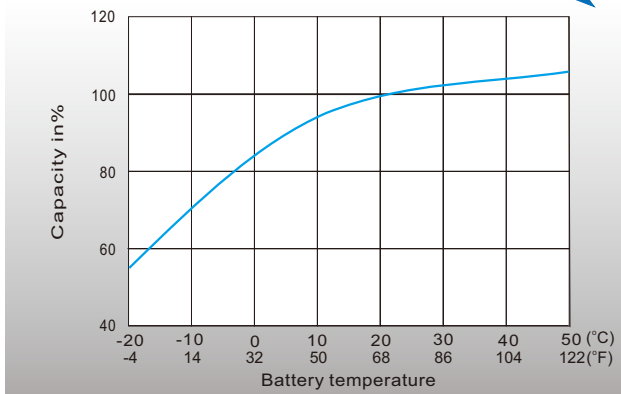
### Discharge Characteristics



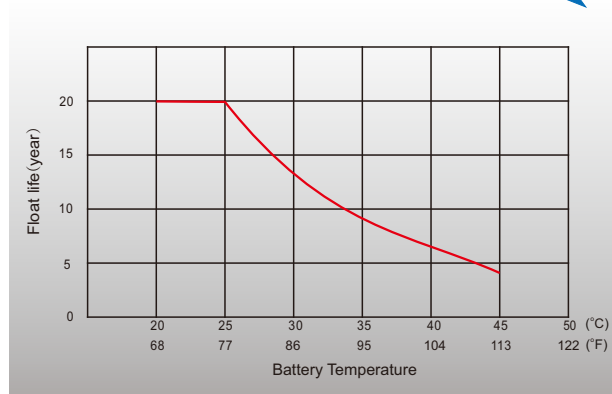
### Charge voltage Vs ambient temperature curve



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



### Float Service Life



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