



OPzS Series-Flooded Battery

6V 50PzS250(6V250Ah)

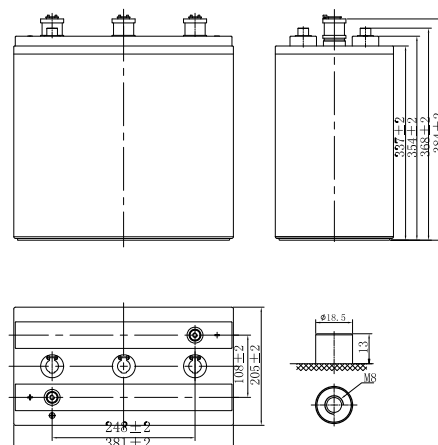


Specifications

Rated Voltage	6V	
Nominal Capacity	$C_{10}, 1.80V/cell$	250.0Ah
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	43.4kg (95.7lbs)
	With Electrolyte	59.0 kg (130.1lbs)
Terminal	M8	
Container Material	SAN transparent container	
Rated Capacity (25°C)	250.0 Ah	(10hr, 25.0A, 1.80V/cell)
	206.5 Ah	(5hr, 41.3A, 1.75V/cell)
	176.4 Ah	(3hr, 58.8A, 1.75V/cell)
	134.3 Ah	(1hr, 134.3A, 1.60V/cell)
Max. Discharge Current	2000A (5s)	
Internal Resistance (25°C)	Approx 2.5mΩ	
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	
	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	184.2	146.7	102.5	66.6	52.0	43.1	37.3	27.3	23.3	12.5
1.80V/cell	217.1	162.8	110.8	72.0	55.7	45.9	39.7	29.3	25.0	13.4
1.75V/cell	248.0	176.2	117.8	76.4	58.8	48.2	41.3	30.1	25.5	13.6
1.70V/cell	270.0	188.3	124.0	79.5	60.8	50.1	42.9	31.0	25.9	13.7
1.65V/cell	288.8	198.1	130.0	81.8	62.2	51.1	43.8	31.5	26.3	13.9
1.60V/cell	304.9	206.1	134.3	84.4	63.7	52.0	44.6	31.9	26.7	14.1

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	348.4	281.3	198.7	130.1	101.8	84.7	73.3	54.0	46.0	24.8
1.80V/cell	402.5	306.9	211.8	139.0	107.7	89.0	77.2	57.2	48.9	26.2
1.75V/cell	453.5	328.2	222.2	145.1	112.0	92.1	79.1	57.9	49.1	26.2
1.70V/cell	487.4	347.3	231.9	149.9	115.0	95.0	81.5	59.2	49.5	26.3
1.65V/cell	514.6	360.8	240.9	152.8	116.7	96.2	82.6	59.6	49.9	26.3
1.60V/cell	533.7	370.0	245.3	155.6	117.8	96.4	82.9	59.6	49.9	26.3



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Applications

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

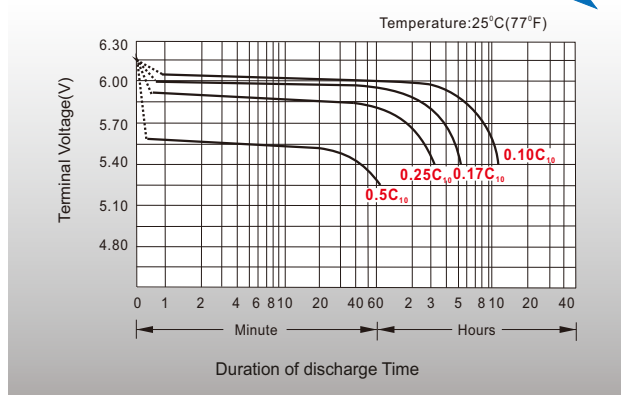
General Features

- 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

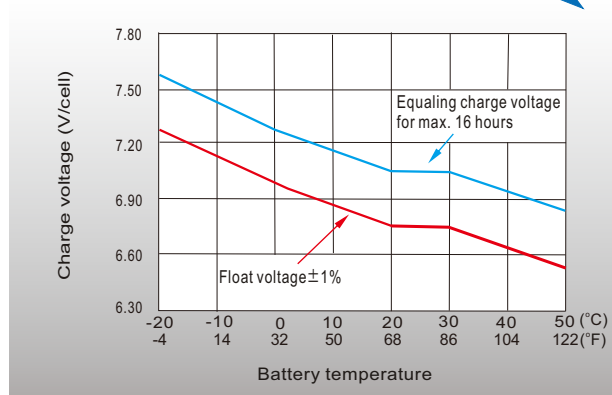
Standards

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

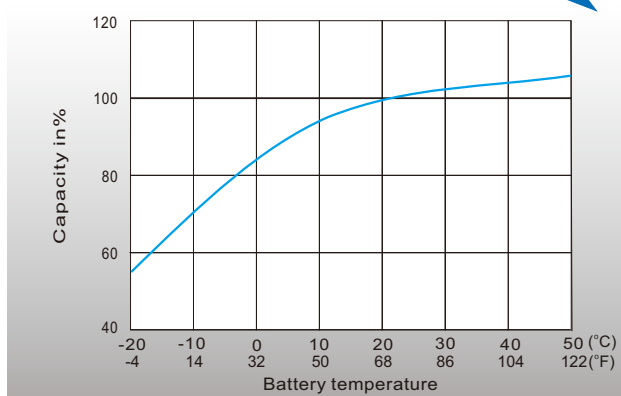
Discharge Characteristics



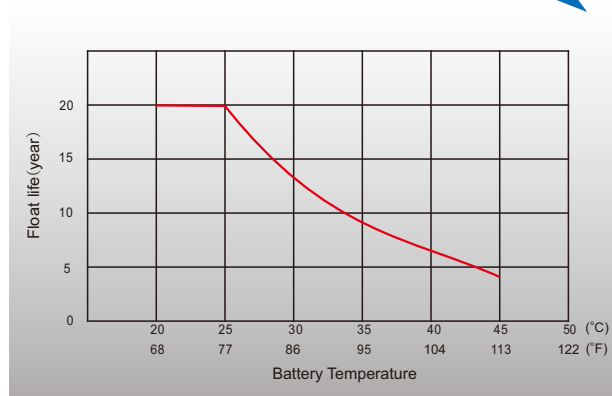
Charge voltage Vs ambient temperature curve



Discharge capacity Vs Ambient temperature curve (I10A)



Float Service Life



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