



OPzS Series-Flooded Battery

6V 50PzS250(6V247.2Ah)

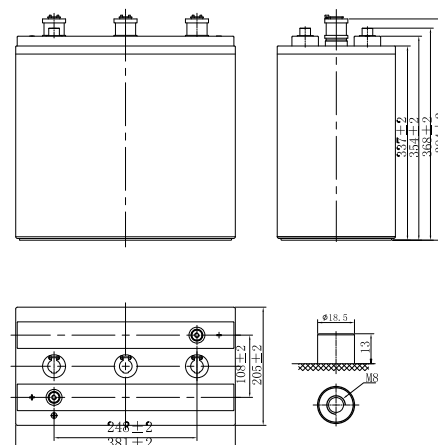


Specifications

Rated Voltage	6V	
Nominal Capacity	$C_{80}, 1.75V/cell$	247.2Ah
Dimension	Length	381±2mm (15.0 inches)
	Width	205±3mm (8.07 inches)
	Container Height	337±3mm (13.27 inches)
	Total Height	384±3mm (15.12 inches)
Approx Weight	Without Electrolyte 45.0kg (99.2lbs) With Electrolyte 59.0 kg (130.1lbs)	
Terminal	M8	
Container Material	SAN transparent container	
Rated Capacity (25°C)	256.0 Ah	(10hr, 25.6A, 1.80V/cell)
	247.2Ah	(8hr, 30.9A, 1.75V/cell)
	211.5Ah	(5hr, 42.3A, 1.75V/cell)
	180.9 Ah	(3hr, 60.3A, 1.75V/cell)
	137.7 Ah	(1hr, 137.7A, 1.60V/cell)
Max. Discharge Current	2000A (5s)	
Internal Resistance (25°C)	Approx 2.72mΩ	
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 25°C(77°F)Temp. Coefficient -3mV/°C	
Standby Use	Initial Charging Current less than 0.1CA. Voltage	
	2.25V~2.30V at 25°C(77°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 25 °C (77°F)

F.V/Time	15min	30min	1h	2h	3h	4h	5h	8h	10h	20h
1.85V/cell	188.8	150.4	105.1	68.3	53.3	44.2	38.2	28.0	23.9	12.8
1.80V/cell	222.5	166.9	113.6	73.8	57.1	47.0	40.7	30.0	25.6	13.7
1.75V/cell	254.2	180.6	120.7	78.3	60.3	49.4	42.3	30.9	26.1	13.9
1.70V/cell	276.8	193.0	127.1	81.5	62.3	51.4	44.0	31.8	26.5	14.0
1.65V/cell	296.0	203.1	133.3	83.8	63.8	52.4	44.9	32.3	27.0	14.2
1.60V/cell	312.5	211.3	137.7	86.5	65.3	53.3	45.7	32.7	27.4	14.5

Constant Power Discharge (Watts/cell) at 25 °C (77°F)

F.V/Time	15min	30min	1h	2h	3h	4h	5h	8h	10h	20h
1.85V/cell	357.1	288.3	203.7	133.4	104.3	86.8	75.1	55.4	47.2	25.4
1.80V/cell	412.6	314.6	217.1	142.5	110.4	91.2	79.1	58.6	50.1	26.3
1.75V/cell	464.8	336.4	227.8	148.7	114.8	94.4	81.1	59.3	50.3	26.5
1.70V/cell	499.6	356.0	237.7	153.6	117.9	97.4	83.5	60.7	50.7	27.0
1.65V/cell	527.5	369.8	246.9	156.6	119.6	98.6	84.7	61.1	51.1	27.2
1.60V/cell	547.0	379.3	251.4	159.5	120.7	98.8	85.0	61.4	51.5	27.4



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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

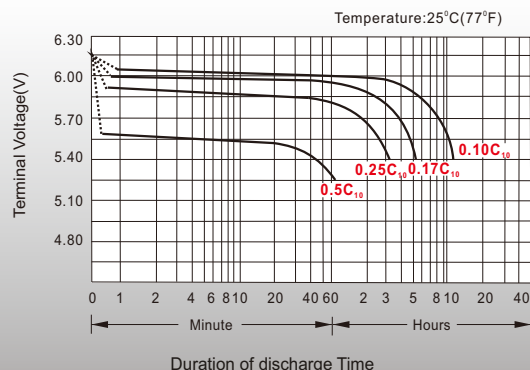
General Features

- 10-12 years design life(25°C)
- Lower self discharge
- Higher thermal capacity, no thermal runaway will occur
- Superior deep cycle performance
- Wide operation temperature range

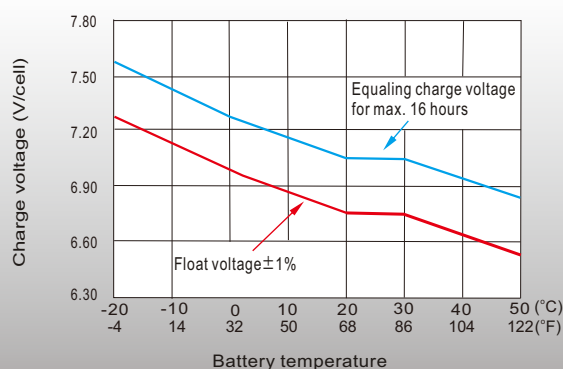
Standards

- Compliance with IEC60896 standards
- Manufactured in Leoch®TS16949, OHSAS 18001, ISO 9001 and ISO 14001 certified production facilities

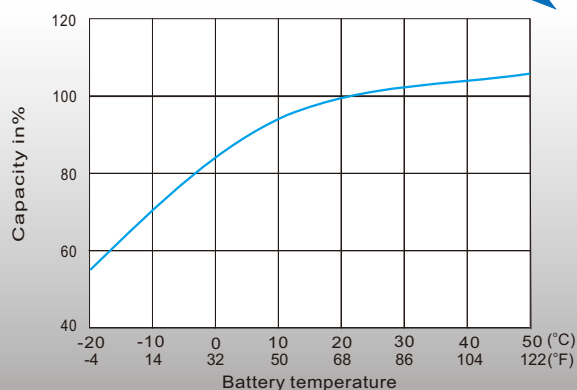
Discharge Characteristics



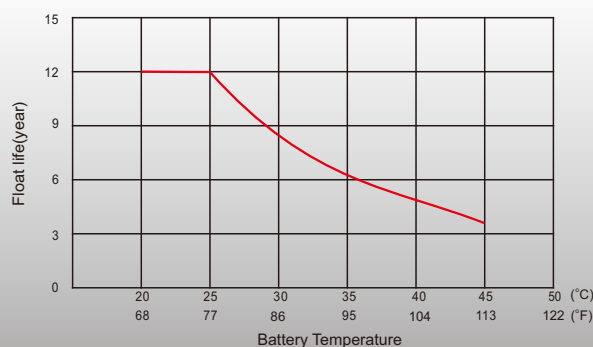
Charge voltage Vs ambient temperature curve



Discharge capacity Vs Ambient temperature curve (I10A)



Float Service Life



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