



OPzS Series-Flooded Battery

12V 20PzS100(12V99.2Ah)

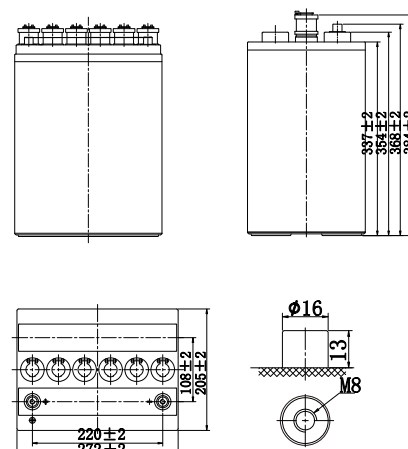


Specifications

Rated Voltage	12V	
Nominal Capacity	C ₈ , 1.75V/cell	99.2Ah
Dimension	Length	272±2mm (10.7 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 38.5kg (84.9lbs) With Electrolyte 48.7 kg (107.4lbs)	
Terminal	M8	
Container Material	SAN transparent container	
Rated Capacity (25°C)	103.0 Ah	(10hr, 10.3A, 1.80V/cell)
	99.2Ah	(8hr, 12.4A, 1.75V/cell)
	84.5Ah	(5hr, 16.9A, 1.75V/cell)
	72.3Ah	(3hr, 24.1A, 1.75V/cell)
	55.0 Ah	(1hr, 55.0A, 1.60V/cell)
Max. Discharge Current	800A (5s)	
Internal Resistance (25°C)	Approx 10.5mΩ	
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 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	75.5	60.2	42.0	27.4	21.3	17.7	15.3	11.2	9.5	5.14
1.80V/cell	89.0	66.7	45.4	29.5	22.9	18.9	16.3	12.0	10.3	5.48
1.75V/cell	101.7	72.3	48.3	31.4	24.1	19.8	16.9	12.4	10.5	5.56
1.70V/cell	110.7	77.2	50.8	32.6	24.9	20.5	17.5	12.7	10.7	5.63
1.65V/cell	118.4	81.2	53.3	33.5	25.5	20.9	17.9	12.9	10.8	5.70
1.60V/cell	125.1	84.5	55.0	34.6	26.1	21.3	18.2	13.1	11.0	5.77

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	142.9	115.3	81.5	53.3	41.7	34.7	30.0	22.1	18.9	10.1
1.80V/cell	165.0	125.9	86.8	57.0	44.2	36.5	31.7	23.5	20.0	10.4
1.75V/cell	185.9	134.6	91.1	59.5	45.9	37.7	32.4	23.8	20.1	10.5
1.70V/cell	199.8	142.4	95.1	61.4	47.2	39.0	33.4	24.1	20.3	10.6
1.65V/cell	211.0	147.9	98.8	62.6	47.9	39.5	33.8	24.4	20.4	10.7
1.60V/cell	218.8	151.7	100.6	63.8	48.3	39.6	34.0	24.6	20.5	10.8



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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

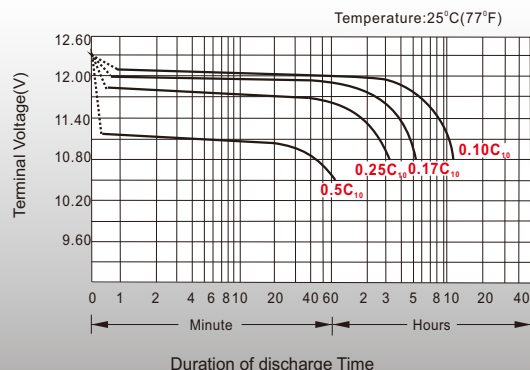
General Features

- 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

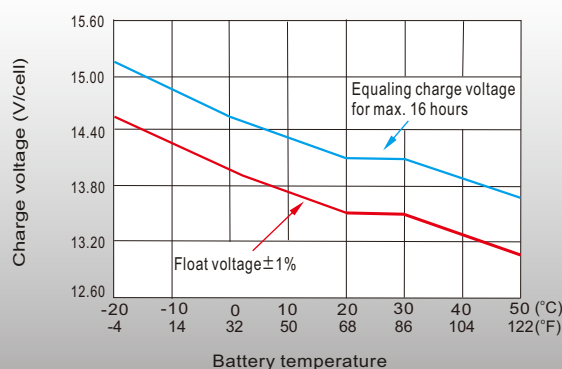
Standards

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

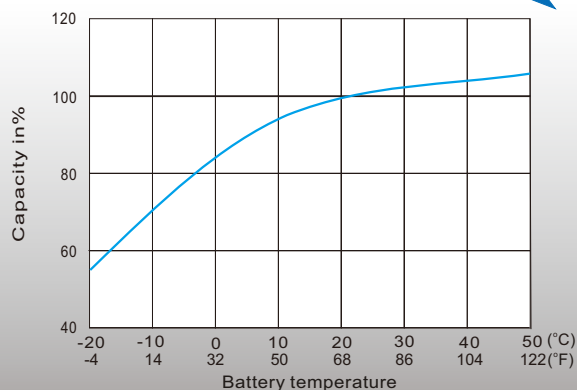
Discharge Characteristics



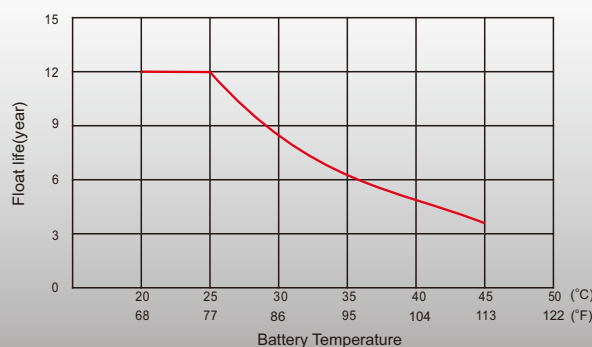
Charge voltage Vs ambient temperature curve



Discharge capacity Vs Ambient temperature curve (I10A)



Float Service Life



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