



OPzS Series-Flooded Battery

12V 20PzS100(12V100Ah)

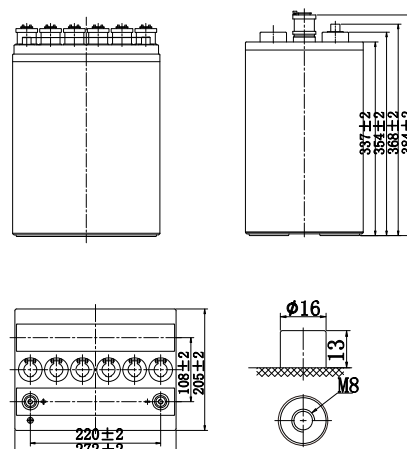


Specifications

Rated Voltage	12V	
Nominal Capacity	C ₁₀ , 1.80V/cell	100.0Ah
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)	100.0 Ah	(10hr, 10.0A, 1.80V/cell)
	82.5 Ah	(5hr, 16.5A, 1.75V/cell)
	70.5 Ah	(3hr, 23.5A, 1.75V/cell)
	53.7 Ah	(1hr, 53.7A, 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 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	73.7	58.7	41.0	26.7	20.8	17.3	14.9	10.9	9.31	5.01
1.80V/cell	86.8	65.1	44.3	28.8	22.3	18.4	15.9	11.7	10.0	5.35
1.75V/cell	99.2	70.5	47.1	30.6	23.5	19.3	16.5	12.1	10.2	5.42
1.70V/cell	108.0	75.3	49.6	31.8	24.3	20.0	17.1	12.4	10.4	5.49
1.65V/cell	115.5	79.2	52.0	32.7	24.9	20.4	17.5	12.6	10.5	5.56
1.60V/cell	122.0	82.4	53.7	33.8	25.5	20.8	17.8	12.8	10.7	5.63

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	139.4	112.5	79.5	52.0	40.7	33.9	29.3	21.6	18.4	9.92
1.80V/cell	161.0	122.8	84.7	55.6	43.1	35.6	30.9	22.9	19.5	10.5
1.75V/cell	181.4	131.3	88.9	58.0	44.8	36.8	31.6	23.2	19.6	10.5
1.70V/cell	194.9	138.9	92.8	59.9	46.0	38.0	32.6	23.7	19.8	10.5
1.65V/cell	205.9	144.3	96.4	61.1	46.7	38.5	33.0	23.8	19.9	10.5
1.60V/cell	213.5	148.0	98.1	62.2	47.1	38.6	33.2	23.8	20.0	10.5



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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

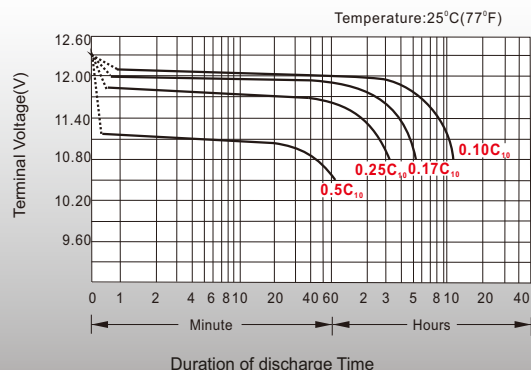
General Features

- 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

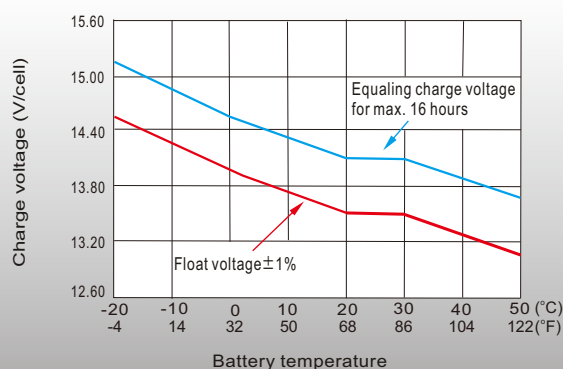
Standards

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

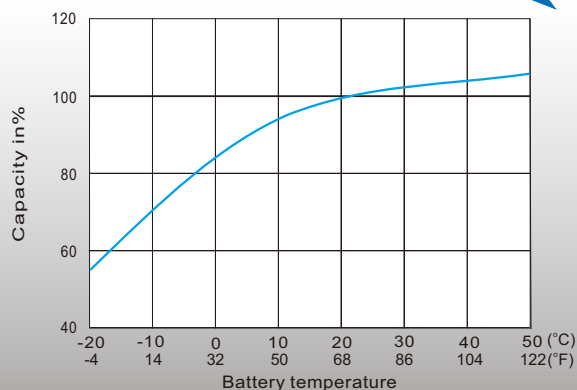
Discharge Characteristics



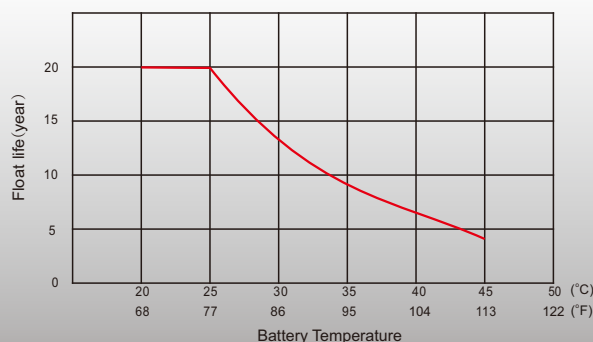
Charge voltage Vs ambient temperature curve



Discharge capacity Vs Ambient temperature curve (I10A)



Float Service Life



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Publication No.:LB-12V 20PzS100-PD-EN-V1.1-202006