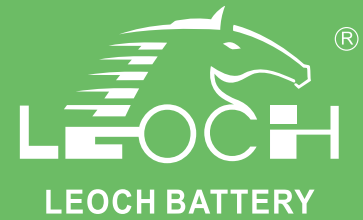




OPzV Series-Tubular Gel

20 OPzV2500(2V2500Ah)

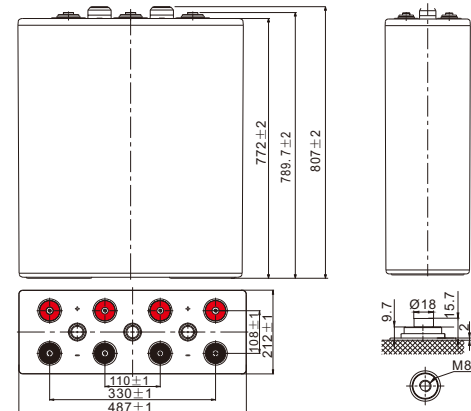


Specifications

Rated Voltage	2V	
Nominal Capacity	2500Ah	(C ₁₀ , 1.80V/cell)
Dimension	Length	487mm(19.17 in.)
	Width	212mm(8.34 in.)
	Container Height	772mm(30.39 in.)
	Total Height	807mm(31.77 in.)
Approx Weight	196.0Kg (432.11 lbs)	
Terminal	M8	
Container Material	ABS	
Rated Capacity (25°C)	2500.0 Ah	(10hr, 250.0A, 1.80V/cell)
	2180.5 Ah	(5hr, 436.1A, 1.75V/cell)
	1935.6 Ah	(3hr, 645.2A, 1.75V/cell)
	1394.8 Ah	(1hr, 1394.8A, 1.67V/cell)
Max. Discharge Current (5s)	20000A	
Internal Resistance(25°C)	Approx. 0.25mΩ	
Operating Temp. Range	Discharge	-20°C~55°C (-4°F~131°F)
	Charge	0°C~40°C (32°F~104°F)
	Storage	-20°C~50°C (-4°F~122°F)
Nominal Operating Temp. Range	25±3°C (77±5°F)	
Max. Charging Current(25°C)	625.0A	
Charge voltage(25°C)	Float	2.25V
	Temp. Coefficient	-3mV/cell/°C
	Cycle(Equalization)	2.35~2.40V
Effect of temp. to Capacity	40°C (104°F)	106%
	25°C (77°F)	100%
	0°C (32°F)	86%
Self Discharge	≤3% per month at 25°C	



Layout



Constant Current Discharge (Amperes) at 25 °C (77°F)

F. V/Time	10 min	15 min	30 min	1h	2h	3h	5h	8h	10h
1.85V/cell	1459.0	1424.0	1302.0	1117.3	755.5	580.0	396.8	278.1	234.3
1.80V/cell	1795.0	1723.0	1517.0	1252.5	827.5	630.8	427.5	297.5	250.0
1.75V/cell	2123.0	1929.0	1617.0	1302.3	856.3	645.2	436.1	302.5	254.3
1.70V/cell	2383.0	2105.0	1711.0	1359.2	877.9	658.0	442.5	306.8	257.1
1.67V/cell	2559.0	2222.0	1780.0	1394.8	892.3	670.2	449.7	310.4	259.3
1.60V/cell	2677.0	2301.0	1826.0	1416.2	906.7	678.1	454.0	312.6	261.4

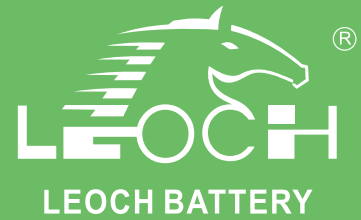
Constant Power Discharge (Watts/cell) at 25 °C (77°F)

F. V/Time	10 min	15 min	30 min	1h	2h	3h	5h	8h	10h
1.85V/cell	2714.0	2675.0	2487.0	2156.3	1467.9	1131.3	779.2	551.2	465.7
1.80V/cell	3280.0	3193.0	2870.0	2412.5	1604.6	1224.4	836.4	589.3	496.4
1.75V/cell	3814.0	3523.0	3028.0	2490.8	1640.6	1245.9	850.7	597.9	503.6
1.70V/cell	4204.0	3790.0	3172.0	2576.2	1676.6	1267.4	865.0	604.3	508.6
1.67V/cell	4434.0	3942.0	3267.0	2626.0	1705.4	1288.9	872.2	610.1	512.9
1.60V/cell	4550.0	4023.0	3316.0	2654.4	1719.8	1296.0	879.3	613.0	515.7



OPzV Series-Tubular Gel

20 OPzV2500(2V2500Ah)



Applications

- Telecommunications
- Radio and cellular telephone relay stations
- Emergency lighting systems
- Power stations, Conventional power stations, alternative power (solar, wind)
- Large UPS and computer back-up
- Railway signaling
- Maritime standby power on ships and ashore
- Process and control engineering
- Standby power
- Buoy lighting

General Features

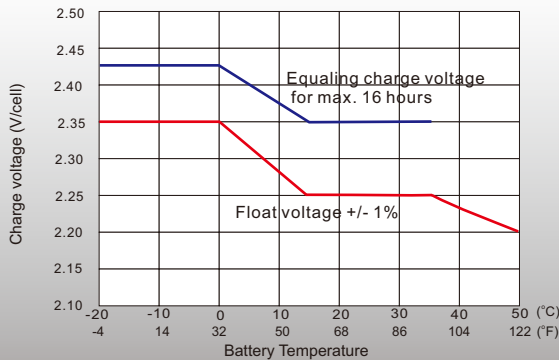
- 20 years design life (20°C)
- Better recovery performance
- Wide working temperature range (-20~55°C)
- No electrolyte stratification provides longer service life
- High recombination efficient
- Built in copper core based in lead will carry large current
- Separator imported from AMER-SIL high porosity, PVC-SiO₂ and low resistance
- Pasted negative plate special grid design increase the active material, availability large current discharge and charge ability
- Tubular type positive plate (polyester tube) prevent the active material from falling. Multi metal alloy pressed positive grid increase the anti corrosion ability and service life

Standards

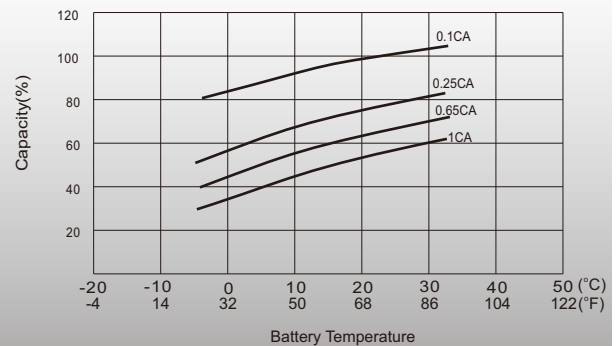
- Compliance with IEC 60896, IEC 61427, DIN 40742 standards
- UL, CE Certified
- Manufactured in Leoch@IATF16949, OHSAS 18001, ISO 9001 and ISO 14001 certified production facilities

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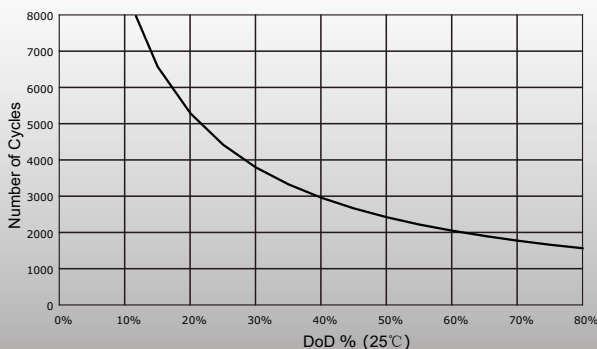
Charge voltage vs ambient temperature curve



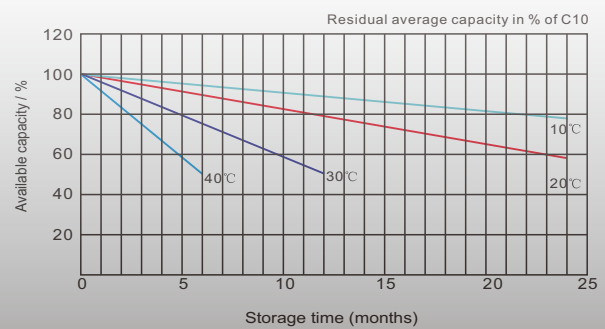
Temperature effects in relation to battery capacity



Cycle Life in Relation to DOD



General Relation of Capacity VS. Storage Time



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Publication No.:LB-20 OPzV2500-PD-EN-V1.1-201906