



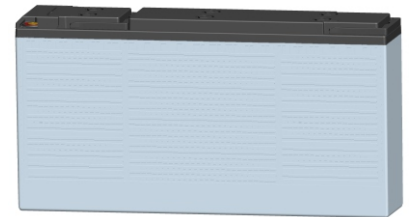
OPzV Series-Tubular Gel

12V 30PzV100FT

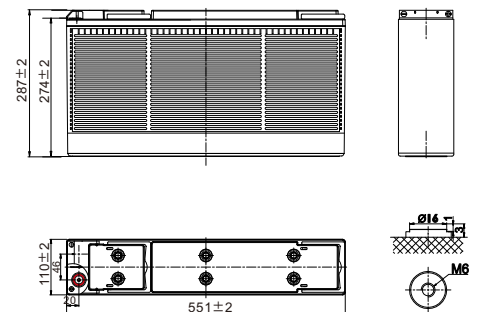


Specifications

Rated Voltage	12V	
Nominal Capacity	100Ah	(C ₁₀ , 1.80V/cell)
Dimension	Length	551mm(21.69 in.)
	Width	110mm(4.33 in.)
	Container Height	274mm(10.79 in.)
	Total Height	287mm(11.30 in.)
Approx Weight	41.1Kg (90.6 lbs)	
Terminal	M6	
Container Material	ABS	
Rated Capacity (25°C)	100.0Ah	(10hr, 10.0A, 1.80V/cell)
	87.5Ah	(5hr, 17.5A, 1.75V/cell)
	75.6Ah	(3hr, 25.2A, 1.75V/cell)
	59.3Ah	(1hr, 59.3A, 1.67V/cell)
Max. Discharge Current	1000A	
Internal Resistance (25°C)	Approx. 12mΩ	
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)	30.0A	
Charge voltage (25°C)	Float	13.5V
	Temp. Coefficient	-3mV/cell/°C
	Cycle(Equalization)	14.1~14.4V
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	30min	45min	1h	2h	3h	4h	5h	8h	10h	20h
1.85V/cell	63.6	54.8	46.5	29.5	22.5	18.6	16.1	11.3	9.57	5.12
1.80V/cell	71.4	59.9	51.0	31.9	24.1	19.7	16.9	11.8	10.0	5.35
1.75V/cell	76.8	64.5	54.3	33.5	25.2	20.7	17.5	12.1	10.2	5.46
1.70V/cell	82.2	67.6	57.4	34.7	26.2	21.4	18.0	12.3	10.3	5.53
1.67V/cell	86.0	70.4	59.3	35.9	27.1	21.9	18.4	12.5	10.5	5.59
1.60V/cell	89.2	72.4	61.1	37.1	27.7	22.4	18.8	12.7	10.7	5.65

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

F.V/Time	30min	45min	1h	2h	3h	4h	5h	8h	10h	20h
1.85V/cell	122.4	106.3	90.5	57.6	44.0	36.6	31.7	22.4	19.1	10.2
1.80V/cell	136.3	115.2	98.8	62.1	47.0	38.7	33.2	23.4	19.9	10.7
1.75V/cell	145.3	123.3	104.6	65.0	49.2	40.4	34.4	24.0	20.3	10.9
1.70V/cell	154.1	128.2	110.0	67.0	50.8	41.6	35.2	24.4	20.5	11.0
1.67V/cell	159.6	132.7	113.0	68.9	52.4	42.5	35.9	24.7	20.8	11.1
1.60V/cell	163.9	135.4	115.8	70.9	53.3	43.3	36.6	25.1	21.1	11.2



OPzV Series-Tubular Gel

12V 30PzV100FT



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

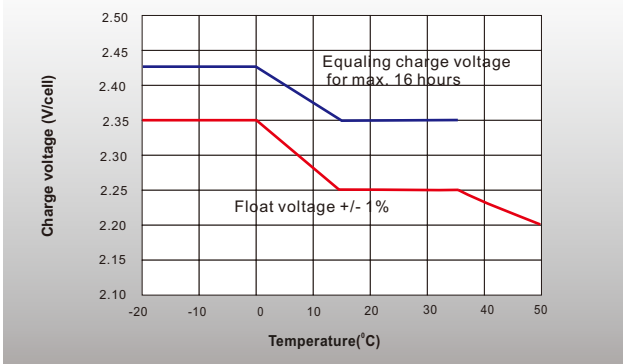
General Features

- 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
- 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

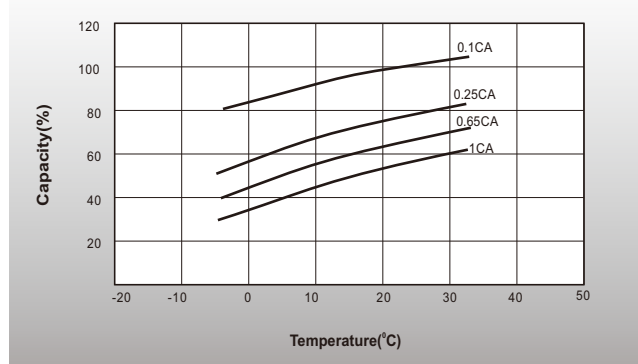
Standards

- Compliance with IEC 60896, IEC 61427,
- UL, CE Certified
- Manufactured in Leoch@IATF16949, ISO 45001, ISO 9001 and ISO 14001 certified production facilities

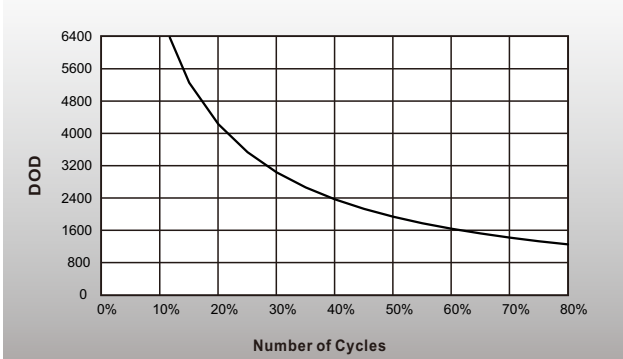
Charge voltage vs ambient temperature curve



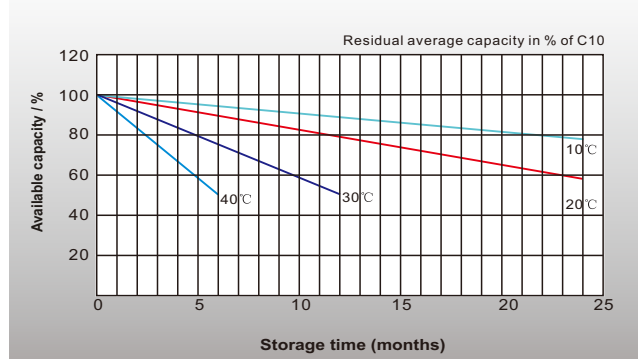
Temperature Effects in Relation to Battery Capacity



Cycle Life



General Relation of Capacity VS. Storage Time



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