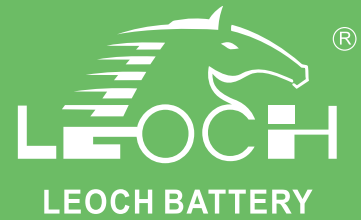




OPzV Series-Tubular Gel

12V 3OPzV60(12V60Ah)

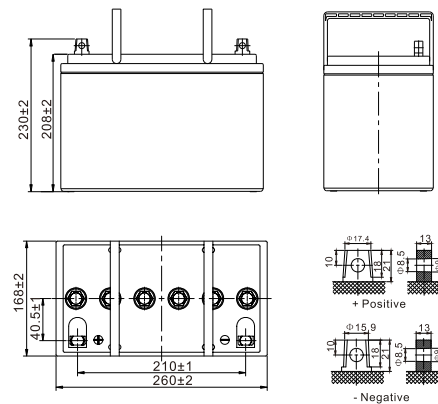


Specifications

Rated Voltage	12V	
Nominal Capacity	60.0Ah	(C ₁₀₀ , 1.80V/cell)
Dimension	Length	260mm(10.24 in.)
	Width	168mm(6.61 in.)
	Container Height	208mm(8.19 in.)
	Total Height	230mm(9.06 in.)
Approx Weight	23.7Kg (52.25 lbs)	
Terminal	T14	
Container Material	ABS	
Rated Capacity (25°C)	60.0 Ah	(10hr, 6.00A, 1.80V/cell)
	52.5 Ah	(5hr, 10.5A, 1.75V/cell)
	45.3 Ah	(3hr, 15.1A, 1.75V/cell)
	35.6 Ah	(1hr, 35.6A, 1.67V/cell)
Max. Discharge Current (5s)	480A	
Internal Resistance(25°C)	Approx. 9.6mΩ	
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)	15.0A	
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	10min	15min	30min	1h	2h	3h	5h	8h	10h	20h
1.85V/cell	57.9	51.1	38.2	27.9	17.7	13.5	9.66	6.78	5.73	2.95
1.80V/cell	69.6	59.0	42.8	30.6	19.1	14.5	10.1	7.08	6.00	3.09
1.75V/cell	79.9	65.9	46.1	32.6	20.1	15.1	10.5	7.26	6.12	3.15
1.70V/cell	87.2	71.6	49.3	34.4	20.8	15.7	10.8	7.38	6.18	3.18
1.65V/cell	95.4	76.8	51.6	35.6	21.5	16.3	11.0	7.50	6.30	3.24
1.60V/cell	101.8	81.2	53.5	36.6	22.3	16.6	11.3	7.62	6.42	3.31

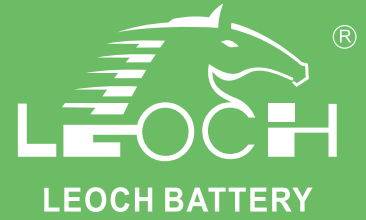
Constant Power Discharge (Watts/cell) at 25 °C (77 °F)

F.V/Time	10min	15min	30min	1h	2h	3h	5h	8h	10h	20h
1.85V/cell	95.3	87.6	72.8	54.3	34.6	26.4	19.0	13.4	11.5	5.92
1.80V/cell	115.2	104.4	81.8	59.3	37.3	28.2	19.9	14.0	11.9	6.13
1.75V/cell	133.9	115.2	87.2	62.8	39.0	29.5	20.6	14.4	12.2	6.28
1.70V/cell	147.6	124.1	92.5	66.0	40.2	30.5	21.1	14.6	12.3	6.33
1.65V/cell	155.5	129.1	95.8	67.8	41.3	31.4	21.5	14.8	12.5	6.44
1.60V/cell	159.6	131.8	98.3	69.5	42.5	32.0	22.0	15.1	12.7	6.54



OPzV Series-Tubular Gel

12V 30PzV60(12V60Ah)



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

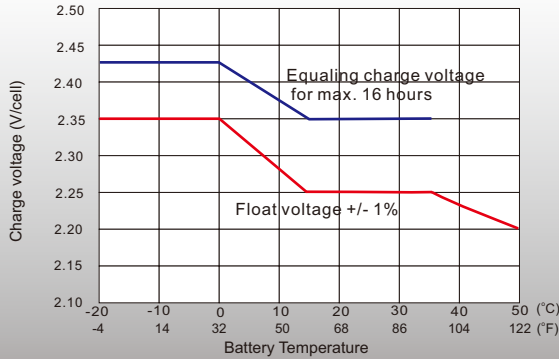
General Features

- 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

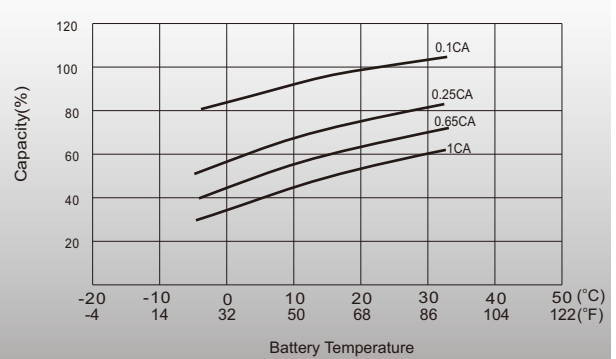
Standards

- Compliance with IEC 60896, IEC 61427, DIN 40742 standards
- CE Certified
- Manufactured in Leoch@IATF16949, ISO 45001, ISO 9001 and ISO 14001 certified production facilities

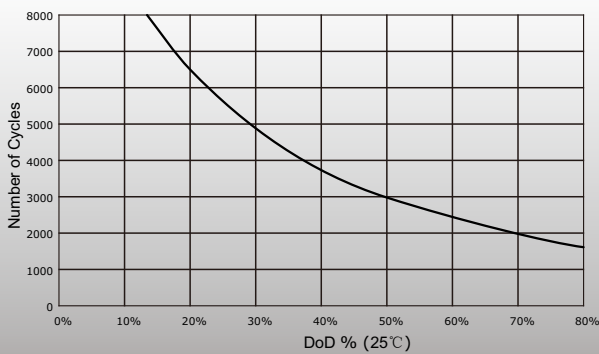
Charge voltage vs ambient temperature curve



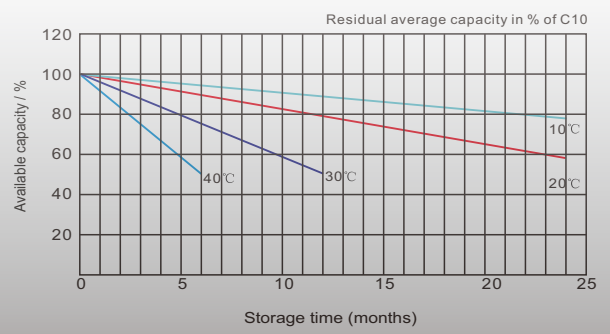
Temperature effects in relation to battery capacity



Cycle Life in Relation to DOD



General Relation of Capacity VS. Storage Time



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