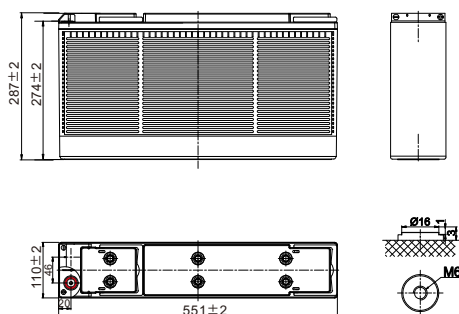




Layout



Specification

Nominal Voltage	12V	
Rated Capacity	108.0Ah	(C ₁₀ , 1.80V/cell)
Dimension	Length	551mm(21.69 in.)
	Width	110mm(4.33 in.)
	Container Height	274mm(10.79 in.)
	Total Height (with Terminal)	287mm(11.30 in.)
Approx Weight	39.7Kg (87.52 lbs)	
Terminal	T6	
Container Material	ABS	
Capacity	108 Ah	(10hr, 10.8A, 1.80V/cell)
	92 Ah	(5hr, 18.4A, 1.75V/cell)
	79.5 Ah	(3hr, 26.5A, 1.75V/cell)
	64 Ah	(1hr, 64A, 1.67V/cell)
Max. Discharge Current	1000A (5s)	
Internal Resistance	Approx 6.50 mΩ	
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°C±3°C (77°F±5°F)	
Cycle Use(25°C)	Charging Current	≤30.0A
	Charging Voltage	14.1V~14.4V
Standby Use (25°C)	Charging Current	≤30.0A
	Charging Voltage	13.5V
	Temp. Coefficient	-3mV/cell/°C
Self Discharge	≤3% per month at 25°C	

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	48.8	31.0	23.6	19.5	16.9	12.2	10.3	5.53
1.80V/cell	71.4	59.9	53.6	33.5	25.3	20.7	17.7	12.7	10.8	5.78
1.75V/cell	76.8	64.5	57.0	35.2	26.5	21.7	18.4	13.1	11.0	5.90
1.70V/cell	86.3	71.0	62.0	37.5	28.3	23.1	19.4	13.3	11.1	5.97
1.67V/cell	90.3	73.9	64.0	38.8	29.3	23.7	19.9	13.5	11.3	6.04
1.60V/cell	93.7	76.0	66.0	40.1	29.9	24.2	20.3	13.7	11.6	6.10

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	95.0	60.5	46.2	38.4	33.3	24.2	20.6	11.0
1.80V/cell	136.3	115.2	103.7	65.2	49.4	40.6	34.9	25.3	21.5	11.6
1.75V/cell	145.3	123.3	109.8	68.3	51.7	42.4	36.1	25.9	21.9	11.8
1.70V/cell	161.8	134.6	118.8	72.4	54.9	44.9	38.0	26.4	22.1	11.9
1.67V/cell	167.6	139.3	122.0	74.4	56.6	45.9	38.8	26.7	22.5	12.0
1.60V/cell	172.1	142.2	125.1	76.6	57.6	46.8	39.5	27.1	22.8	12.1

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

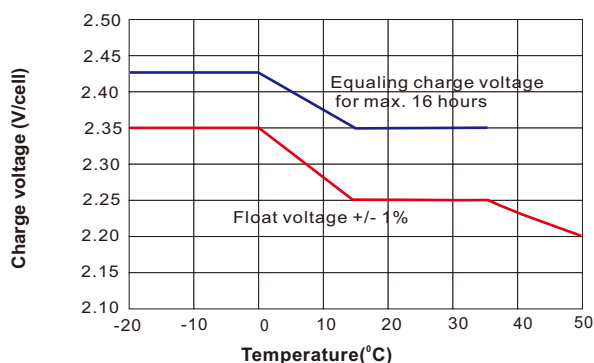
General Features

- Better recovery performance
- Wide working temperature range (-20~50)°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

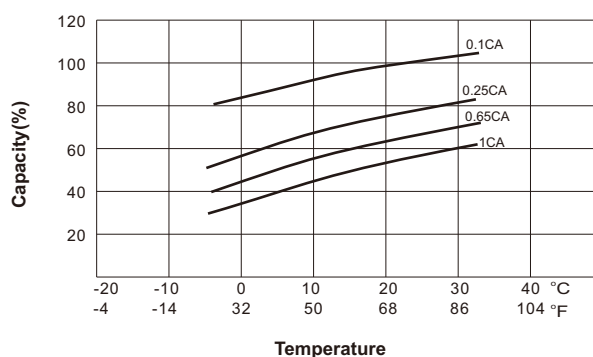
- IEC 60896 Certified
- Classified as "Very Long Life" according to Eurobat
- UL Certified
- Manufactured in Leoch® TS16949, ISO 9001 and ISO 14001 certified production facilities

Charge voltage vs ambient temperature curve

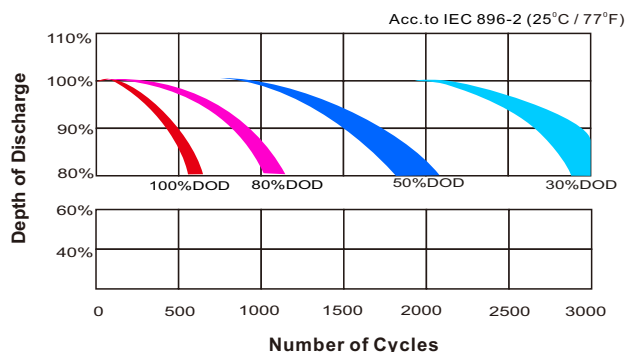


For continuous charging we recommend a voltage of 2.25 V. The charging voltage must be compensated to the curve for continuously different battery ambient temperature.

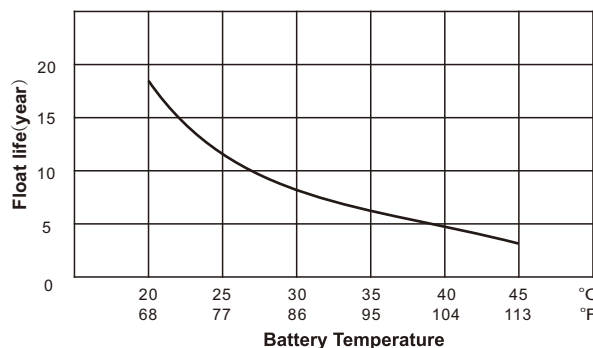
Temperature Effects in Relation to Battery Capacity



Cycle Life in Relation to Depth of Discharge



Float Life



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