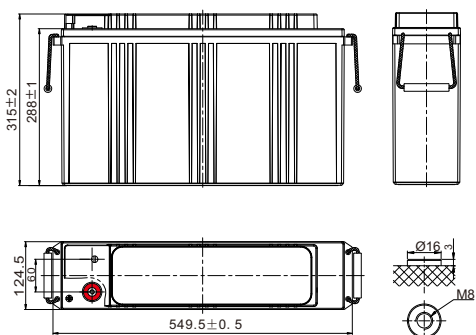


Layout



Specification

Nominal Voltage	12V	
Rated Capacity	162.0Ah	(C ₁₀ , 1.80V/cell)
Dimension	Length	549.5mm(21.63 in.)
	Width	124.5mm(4.90 in.)
	Container Height	288mm(11.34 in.)
	Total Height (with Terminal)	315mm(12.40 in.)
Approx Weight	51.7Kg (113.98 lbs)	
Terminal	T6-A	
Container Material	ABS	
Capacity	162 Ah	(10hr, 16.2A, 1.80V/cell)
	138 Ah	(5hr, 27.6A, 1.75V/cell)
	119.4 Ah	(3hr, 39.8A, 1.75V/cell)
	96.1 Ah	(1hr, 96.1A, 1.67V/cell)
Max. Discharge Current	1500A (5s)	
Internal Resistance	Approx 5.00 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	≤45.0A
	Charging Voltage	14.1V~14.4V
Standby Use (25°C)	Charging Current	≤45.0A
	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	95.4	82.2	73.2	46.4	35.4	29.3	25.3	18.9	15.6	8.29
1.80V/cell	107.1	89.8	80.3	50.3	37.9	31.1	26.6	19.8	16.2	8.67
1.75V/cell	115.2	96.8	85.6	52.8	39.8	32.6	27.6	20.4	16.5	8.83
1.70V/cell	129.5	106.5	93.0	56.3	42.4	34.6	29.2	20.7	16.7	8.95
1.67V/cell	135.5	110.9	96.1	58.2	44.0	35.4	29.8	21.1	17.0	9.06
1.60V/cell	140.5	114.0	99.0	60.2	44.9	36.3	30.5	21.4	17.3	9.16

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	183.6	159.4	142.6	90.8	69.4	57.6	50.0	37.6	30.9	16.5
1.80V/cell	204.5	172.8	155.6	97.8	74.0	60.9	52.3	39.4	32.3	17.3
1.75V/cell	217.9	185.0	164.9	102.3	77.4	63.5	54.2	40.3	32.8	17.6
1.70V/cell	242.8	202.0	178.2	108.5	82.3	67.4	57.0	41.0	33.3	17.8
1.67V/cell	251.4	209.0	183.0	111.7	84.9	68.8	58.2	41.6	33.7	18.0
1.60V/cell	258.2	213.3	187.6	114.8	86.4	70.2	59.2	42.1	34.1	18.1

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

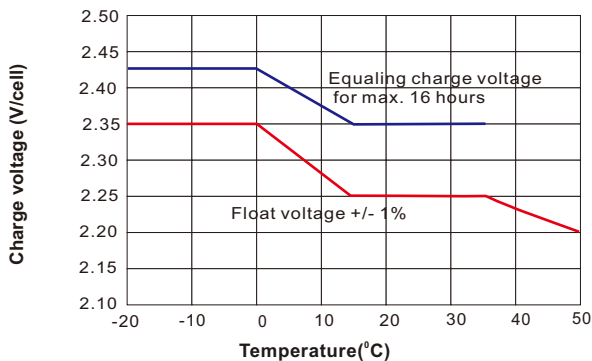
General Features

- 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

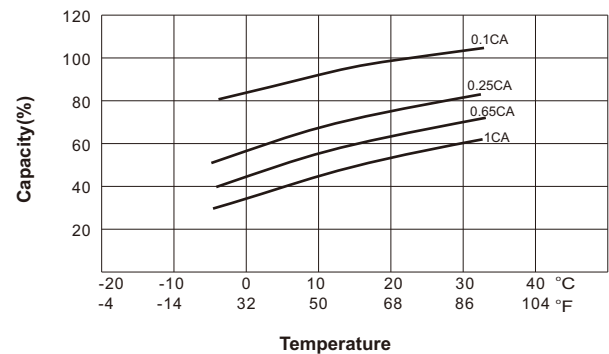
- IEC 60896 Certified
- Classified as "Very Long Life" according to Eurobat
- UL Certified
- Manufactured in Leoch® TS16949, ISO 9001 and ISO 14001 certified production facilities

Charge voltage vs ambient temperature curve

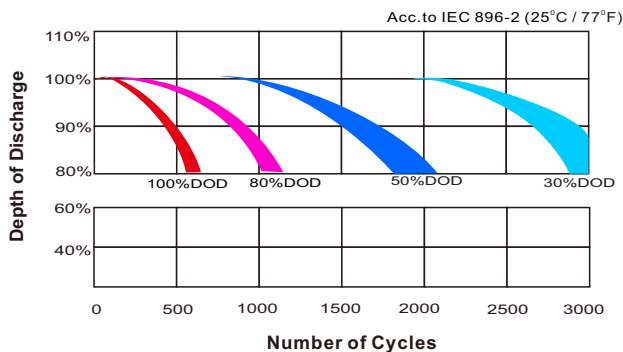


For continuous charging we recommend a voltage of 2.25 V. The charging voltage must be compensated to the curve for a continuously different battery ambient temperature.

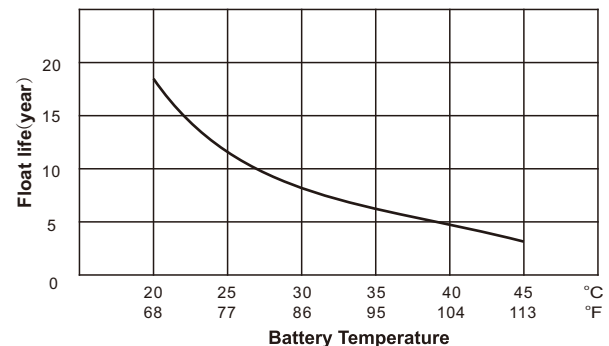
Temperature Effects in Relation to Battery Capacity



Cycle Life in Relation to Depth of Discharge



Float Life



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