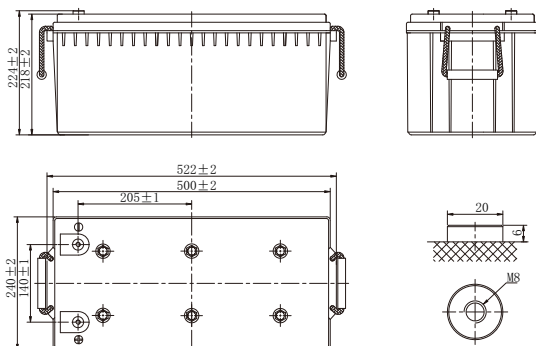




## Layout



## Specification

Nominal Voltage	12V	
Rated Capacity	195.0Ah	(C <sub>10</sub> , 1.80V/cell)
Dimension	Length	522mm(20.55in.)
	Width	240mm(9.45in.)
	Container Height	218mm(8.58in.)
	Total Height (with Terminal)	224mm(8.81in.)
Approx Weight	67.4Kg (148.59 lbs)	
Terminal	T11(M8,Torque11~14.7Nm)	
Container Material	ABS	
Capacity	195 Ah	(10hr, 19.5A, 1.80V/cell)
	166 Ah	(5hr, 33.2A, 1.75V/cell)
	143.1 Ah	(3hr, 47.7A, 1.75V/cell)
	115.2 Ah	(1hr, 115.2A, 1.67V/cell)
Max. Discharge Current	1440A (5s)	
Internal Resistance	Approx 5.2 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	2.34V~2.40V
Standby Use (25°C)	Charging Current	≤45.0A
	Charging Voltage	2.25V
	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	10min	15min	30min	1h	2h	3h	5h	8h	10h
1.85V/cell	173.8	153.2	114.5	87.9	55.8	42.5	30.5	21.9	18.6
1.80V/cell	208.9	177.0	128.5	96.4	60.3	45.6	31.9	22.9	19.5
1.75V/cell	239.6	197.8	138.2	102.6	63.3	47.7	33.2	23.5	19.9
1.70V/cell	261.6	214.7	155.4	111.6	67.5	51.0	35.0	23.9	20.0
1.67V/cell	286.1	230.4	162.5	115.2	69.8	52.7	35.7	24.3	20.4
1.60V/cell	305.4	243.7	168.6	118.5	72.1	53.9	36.5	24.7	20.8

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

F. V/Time	10min	15min	30min	1h	2h	3h	5h	8h	10h
1.85V/cell	285.8	262.8	218.5	171.0	108.9	83.2	60.0	43.5	37.1
1.80V/cell	345.6	313.2	245.3	186.7	117.4	88.8	62.8	45.5	38.7
1.75V/cell	401.8	345.6	261.5	197.7	122.9	93.0	65.0	46.7	39.4
1.70V/cell	442.8	372.2	291.3	213.8	130.2	98.7	68.5	47.4	39.8
1.67V/cell	466.6	387.4	301.7	219.7	133.9	101.8	69.8	48.0	40.4
1.60V/cell	478.8	395.3	309.8	225.1	137.8	103.6	71.2	48.8	41.1

## 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

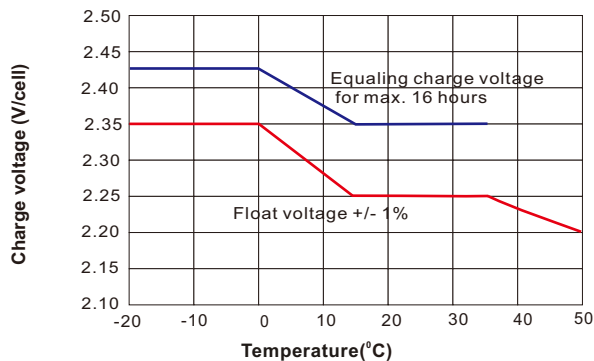
## General Features

- 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-SiO<sub>2</sub> 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

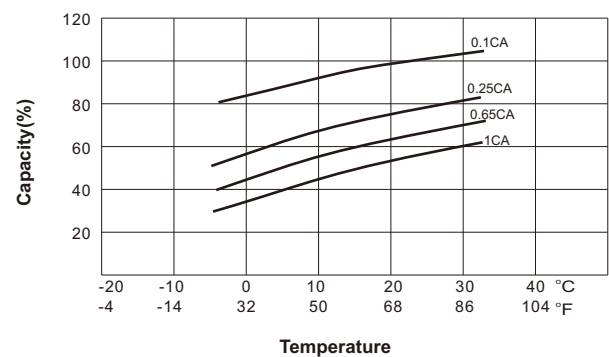
- IEC 60896 Certified
- Classified as "Very Long Life" according to Eurobat
- UL Certified
- Manufactured in Leoch® TS16949, ISO 9001 and ISO 14001 certified production facilities

### Charge voltage vs ambient temperature curve

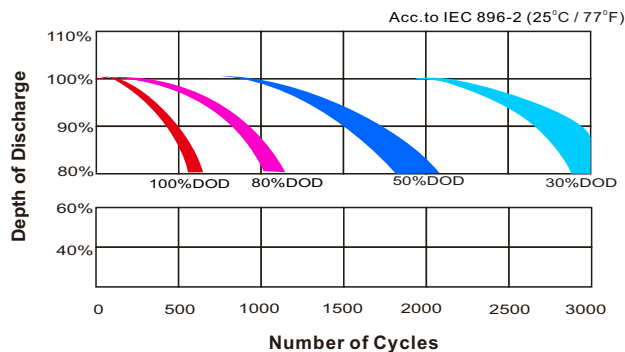


For continuous charging we recommend a voltage of 2.25 V. The charging voltage must be compensated to the curve for continuously different battery ambient temperature.

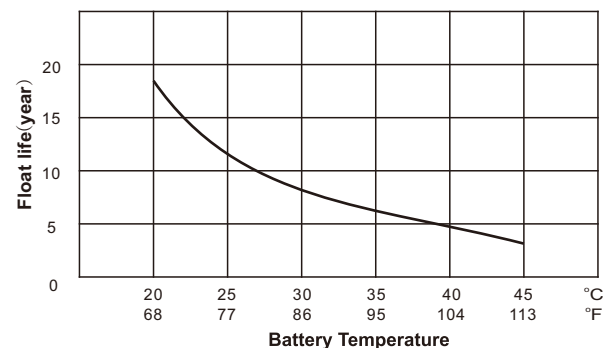
### Temperature Effects in Relation to Battery Capacity



### Cycle Life in Relation to Depth of Discharge



### Float Life



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