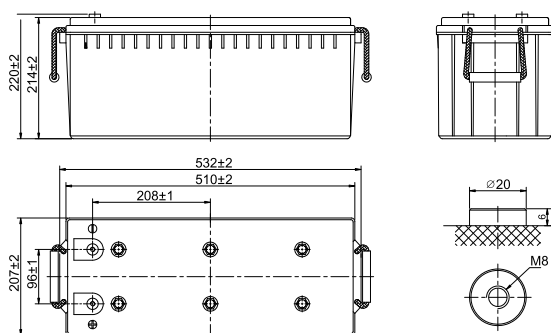




Layout



Specification

Nominal Voltage	12V	
Rated Capacity	173.0Ah	(C ₁₀ , 1.80V/cell)
Dimension	Length	532mm(20.94in.)
	Width	207mm(8.15in.)
	Container Height	214mm(8.43in.)
	Total Height (with Terminal)	220mm(8.66in.)
Approx Weight	59.3Kg (130.73 lbs)	
Terminal	T11(M8,Torque11~14.7Nm)	
Container Material	ABS	
Capacity	173 Ah	(10hr, 17.3A, 1.80V/cell)
	147.5 Ah	(5hr, 29.5A, 1.75V/cell)
	126.9 Ah	(3hr, 42.3A, 1.75V/cell)
	102.5 Ah	(1hr, 102.5A, 1.67V/cell)
Max. Discharge Current	1280A (5s)	
Internal Resistance	Approx 5.1 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	≤40.0A
	Charging Voltage	2.35V~2.40V
Standby Use (25°C)	Charging Current	≤40.0A
	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	154.4	136.2	101.8	78.1	49.6	37.8	27.1	19.6	16.5
1.80V/cell	185.7	157.3	114.2	85.7	53.6	40.5	28.4	20.4	17.3
1.75V/cell	213.0	175.8	122.9	91.2	56.3	42.3	29.5	20.9	17.6
1.70V/cell	232.6	190.9	138.1	99.1	59.9	45.3	31.1	21.3	17.8
1.67V/cell	254.3	204.8	144.5	102.5	62.0	46.9	31.8	21.6	18.1
1.60V/cell	271.4	216.6	149.8	105.3	64.2	47.8	32.5	21.9	18.5

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	254.1	233.6	194.2	152	96.8	73.9	53.2	38.7	33.1
1.80V/cell	307.2	278.4	218.1	166.0	104.4	79.0	55.8	40.4	34.3
1.75V/cell	357.1	307.2	232.5	175.8	109.2	82.6	57.8	41.5	35.1
1.70V/cell	393.6	330.9	258.9	190.1	115.8	87.8	60.8	42.1	35.4
1.67V/cell	414.7	344.3	268.2	195.3	119.0	90.5	62.0	42.6	36.0
1.60V/cell	425.6	351.4	275.3	200.1	122.5	92.1	63.3	43.4	36.5

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

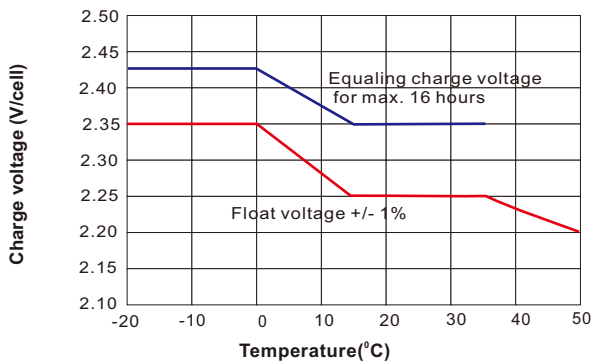
General Features

- Better recovery performance
- Wide working temperature range (-20~50)°C
- No electrolyte stratification provides longer service life.
- High recombination efficient.
- Build 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

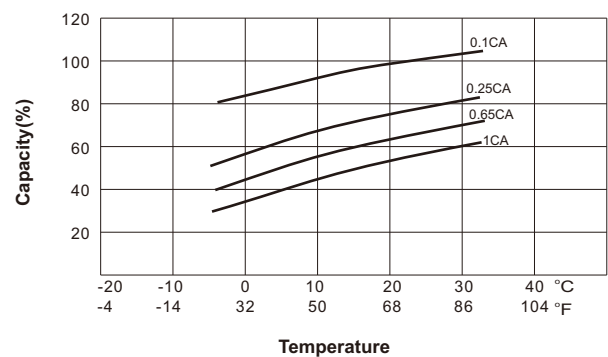
- IEC 60896 Certified
- Classified as "Very Long Life" according to Eurobat
- UL Certified
- Manufactured in Leoch® TS16949, ISO 9001 and ISO 14001 certified production facilities

Charge voltage vs ambient temperature curve

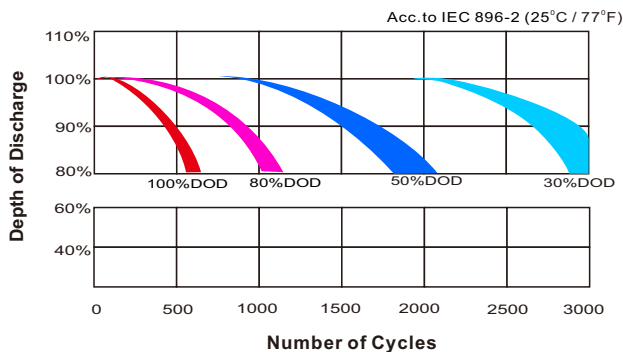


For continuous charging we recommend a voltage of 2.25 V.
The charging voltage must be compensated to the curve for a continuously different battery ambient temperature.

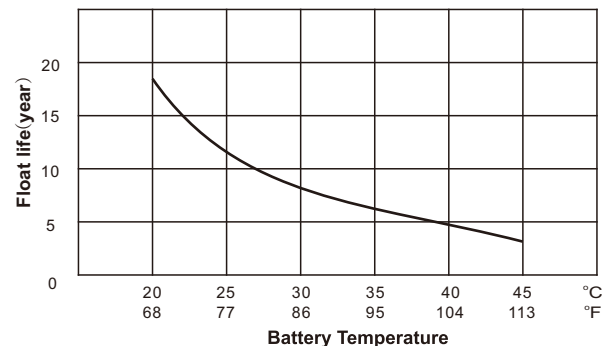
Temperature Effects in Relation to Battery Capacity



Cycle Life in Relation to Depth of Discharge



Float Life



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