

LAGM Series - Leisure

LAGM-110LL (12V110AH)

Specification

Nominal Voltage	12V
Nominal Capacity(100HR)	110.0AH
Dimension	Length 353_2mm (12.01 inches)
	Width 174_2mm (6.61 inches)
	Container Height 190_2mm (8.15 inches)
	Total Height (with Terminal) 190_2mm (9.01 inches)
Approx Weight	Approx 24.3Kg (53.58 lbs)
Terminal	T6 - Threaded Insert
Container Material	ABS
Rated Capacity	110.0 AH/1.10A (100hr, 1.80V/cell, 25°C/77°F)
	100.0 AH/5.0A (20hr, 1.80V/cell, 25°C/77°F)
	95.2 AH/9.52A (10hr, 1.80V/cell, 25°C/77°F)
	83.0 AH/16.6A (5hr, 1.75V/cell, 25°C/77°F)
	57.9 AH/57.9A (1hr, 1.60V/cell, 25°C/77°F)
Max. Discharge Current	1200A (5s)
Internal Resistance	Approx 4.9mΩ
Operating Temp. Range	Discharge : -15~50°C (5~122°F)
	Charge : 0~40°C (32~104°F)
	Storage : -15~40°C (5~104°F)
Nominal Operating Temp. Range	25±3°C (77±5°F)
Cycle Use	Initial Charging Current less than 30.0A. Voltage 14.4V~15.0V at 25°C(77°F)Temp. Coefficient -30mV/°C
	No limit on Initial Charging Current Voltage 13.5V~13.8V at 25°C(77°F)Temp. Coefficient -20mV/°C
Standby Use	
Capacity affected by Temperature	40°C (104°F) 103%
	25°C (77°F) 100%
	0°C (32°F) 86%
Self Discharge	Leoch LPS series batteries may be stored for up to 6 months at 25°C(77°F) and then a freshening charge is required. For higher temperatures the time interval will be shorter.



Applications

- ◆ Green energy systems (solar, wind, hydro, etc)
- ◆ Solar power stations
- ◆ Telecommunications installations
- ◆ Measurement stations
- ◆ Pump systems
- ◆ Signal station
- ◆ Survey and Mapping system
- ◆ Emergency lighting
- ◆ Railway crossing
- ◆ Traffic lights
- ◆ Street lightening
- ◆ Lawn lamp
- ◆ Street signs
- ◆ SOS pillars
- ◆ Alarm installations
- ◆ Weekend cottage camping
- ◆ Caravans
- ◆ Boats or buoys



Constant Current Discharge (Amperes) at 25 °C (77°F)

F.V/Time	15min	20min	30min	45min	1h	2h	3h	4h	5h	8h	10h	20h	48h	100h
1.85V/cell	108.3	90.0	69.9	55.4	44.8	29.2	22.0	18.0	15.3	10.7	9.12	4.85	2.18	1.07
1.80V/cell	120.1	99.0	75.4	58.8	47.2	31.0	23.2	18.9	16.0	11.2	9.52	5.00	2.22	1.10
1.75V/cell	133.2	108.4	81.1	62.9	50.9	32.5	24.5	19.8	16.6	11.5	9.73	5.10	2.25	1.11
1.70V/cell	145.6	118.4	89.1	65.7	53.8	34.3	25.7	20.6	17.3	11.9	10.0	5.20	2.28	1.12
1.65V/cell	154.1	125.0	93.9	69.7	55.7	35.5	26.7	21.3	17.9	12.3	10.3	5.33	2.32	1.14
1.60V/cell	168.9	135.7	99.8	72.3	57.9	37.0	27.6	22.0	18.5	12.6	10.5	5.45	2.36	1.15

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

F.V/Time	15min	20min	30min	45min	1h	2h	3h	4h	5h	8h	10h	20h	48h	100h
1.85V/cell	203.2	170.6	133.9	107.0	87.1	57.0	43.1	35.4	30.1	21.1	18.1	9.65	4.36	2.15
1.80V/cell	222.3	184.9	142.3	112.2	91.1	60.2	45.2	37.0	31.4	22.1	18.9	9.94	4.42	2.19
1.75V/cell	243.6	200.6	151.8	119.4	97.8	62.8	47.6	38.5	32.5	22.7	19.3	10.1	4.48	2.20
1.70V/cell	262.4	217.4	165.9	124.2	103.0	66.1	49.8	40.0	33.7	23.5	19.9	10.3	4.53	2.23
1.65V/cell	276.8	228.6	174.0	131.3	106.2	68.1	51.5	41.3	34.9	24.1	20.3	10.6	4.61	2.26
1.60V/cell	297.3	244.6	183.0	134.8	109.4	70.4	52.9	42.4	35.9	24.7	20.7	10.8	4.68	2.28

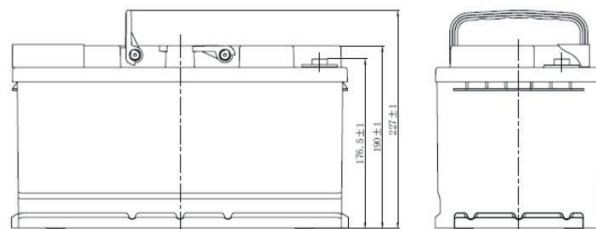
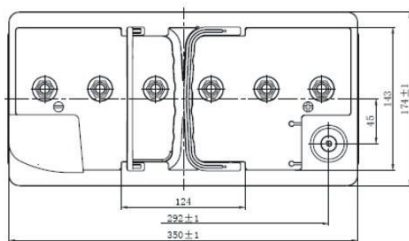
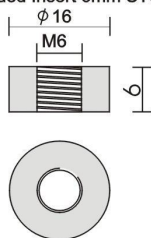
Specifications subject to change without notice.



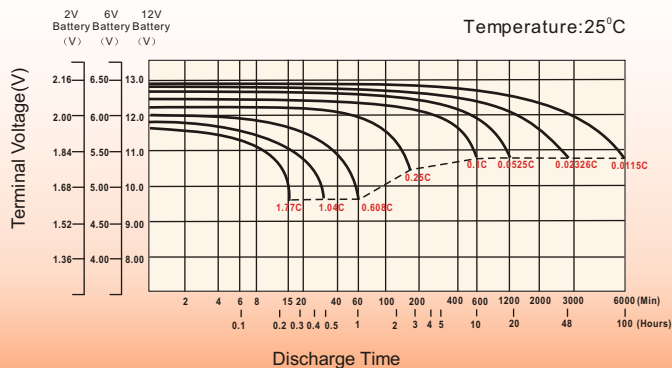
Dimensions

T6 Terminal

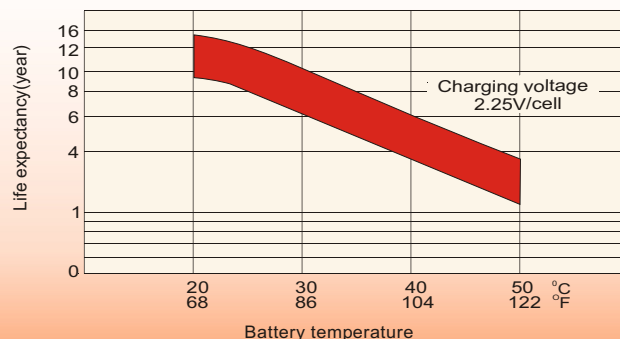
Threaded Insert 6mm STUD



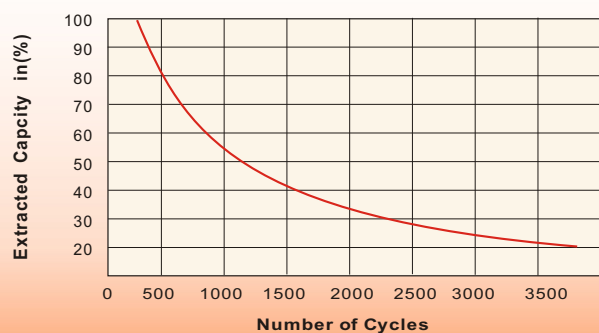
Discharge Characteristics



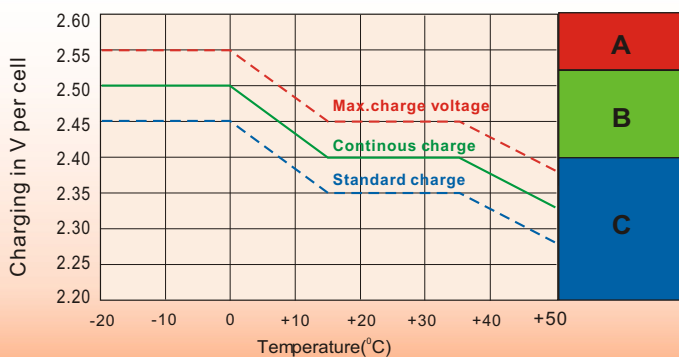
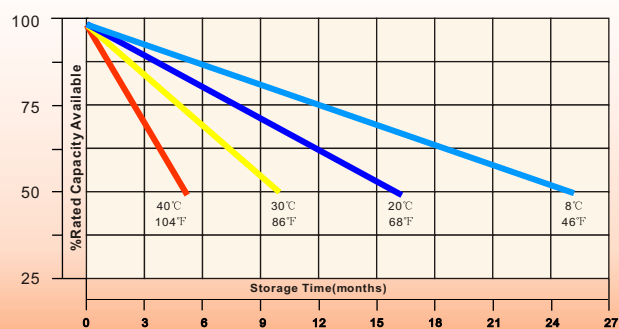
Effect of Temperature on Long Term Float Life



Cycle Service Life



Self-Discharge at Different Temperatures



Charge Mode

- A** With switch regulator (two-step controller) charge on curve max.charge voltage for max.2 hrs/day then switch over to continous charge
- B** Standard charge without switching
- C** Boost charge (Equalizing charge with external generator) charge on curve continous charge for max. 5 hrs/month, then switch over to curve Standard charge

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