

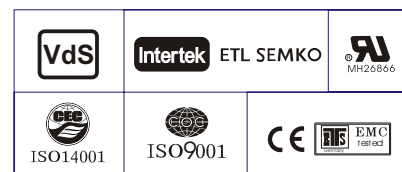
Specification

Nomial Voltage	12V	
Nomial Capacity(10HR)	97.0AH	
Dimension	Length	330±3mm (12.99 inches)
	Width	173±2mm (6.81 inches)
	Container Height	212±2mm (8.35 inches)
	Total Height (with Terminal)	220±2mm (8.66 inches)
Approx Weight	Approx 31.5 Kg (69.5 lbs)	
Terminal	T11	
Container Material	ABS	
Rated Capacity	103.8AH/5.19A	(20hr , 1.80V/cell,20°C/68°F)
	97.0 AH/9.70A	(10hr, 1.80V/cell,20°C/68°F)
	83.5 AH/16.7A	(5hr, 1.75V/cell,20°C/68°F)
	75.0 AH/25.0A	(3hr, 1.75V/cell,20°C/68°F)
	58.9 AH/58.9A	(1hr, 1.60V/cell,20°C/68°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	20±3°C (68±5°F)	
Cycle Use	Initial Charging Current less than 40.0A.Voltage	
	14.25V~14.85V at 20°C(68°F)Temp. Coefficient -30mV/°C	
Standby Use	No limit on Initial Charging Current Voltage	
	13.4V~13.7V at 20°C(68°F)Temp. Coefficient -20mV/°C	
Capacity affected by Temperature	40°C (104°F)	103%
	25°C (77°F)	100%
	0°C (32°F)	86%
Self Discharge	Leoch DJM series batterys may be stored for up to 6 months at 20°C(68°F) and then a freshening charge is required. For higher temperatures the time interval will be shorter.	



Applications

- ◆ All purpose
- ◆ Uninterruptable Power Supply (UPS)
- ◆ Electric Power System (EPS)
- ◆ Emergency backup power supply
- ◆ Emergency light
- ◆ Railway signal
- ◆ Aircraft signal
- ◆ Alarm and security system
- ◆ Electronic apparatus and equipment
- ◆ Communication power supply
- ◆ DC power supply
- ◆ Auto control system



Constant Current Discharge (Amperes) at 20 °C (68°F)

F.V/Time	10min	15min	20min	30min	45min	1h	2h	3h	4h	5h	6h	8h	10h	20h
1.85V/cell	111.2	93.5	82.9	68.8	53.1	45.4	29.7	22.3	18.3	15.4	13.6	10.9	9.4	5.01
1.80V/cell	127.2	105.0	91.7	74.7	57.3	47.9	31.9	24.0	19.5	16.3	14.4	11.5	9.7	5.19
1.75V/cell	144.5	118.3	101.3	81.2	62.4	52.3	33.2	25.0	20.1	16.7	14.9	11.9	10.0	5.32
1.70V/cell	163.1	131.3	111.9	88.6	67.3	55.3	35.0	26.3	21.0	17.7	15.6	12.4	10.3	5.46
1.65V/cell	175.2	140.5	119.0	93.5	71.2	57.2	36.3	27.3	21.9	18.2	16.2	12.8	10.6	5.63
1.60V/cell	192.7	153.9	129.3	99.8	74.0	58.9	37.2	28.0	22.3	18.7	16.5	13.0	10.9	5.72

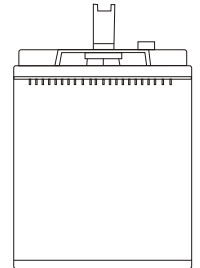
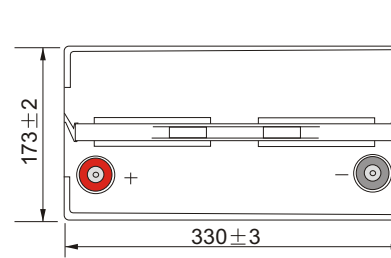
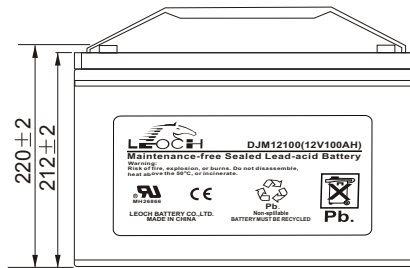
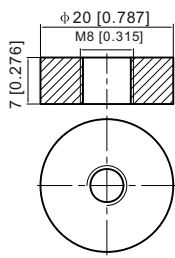
Constant Power Discharge (Watts) at 20 °C (68°F)

F.V/Time	10min	15min	20min	30min	45min	1h	2h	3h	4h	5h	6h	8h	10h	20h
1.85V/cell	207.5	176.3	158.0	132.5	103.1	88.5	58.3	44.0	36.1	30.5	27.1	21.8	18.8	10.0
1.80V/cell	234.7	195.3	172.1	141.7	110.3	92.9	62.2	47.0	38.2	32.2	28.6	22.9	19.4	10.4
1.75V/cell	262.4	217.5	188.4	152.7	119.2	100.8	64.5	48.7	39.4	32.8	29.4	23.6	19.9	10.6
1.70V/cell	289.7	238.0	206.4	165.8	127.9	106.4	67.8	51.2	41.1	34.6	30.7	24.6	20.6	10.9
1.65V/cell	308.2	252.9	218.0	173.6	134.2	109.2	69.9	53.0	42.6	35.6	31.7	25.3	21.1	11.2
1.60V/cell	331.5	272.4	234.3	183.9	138.7	111.9	71.3	54.1	43.4	36.4	32.3	25.7	21.6	11.4

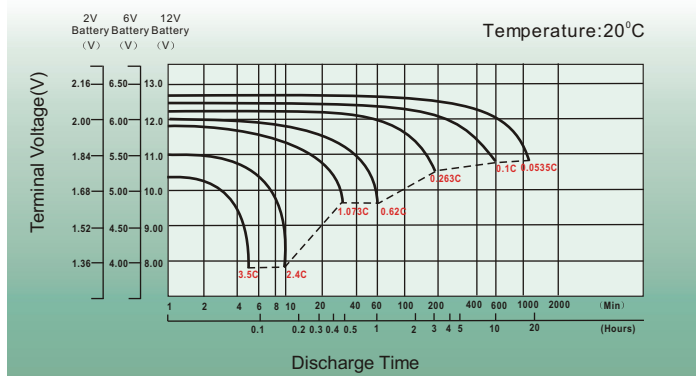
Dimensions

T11 Terminal

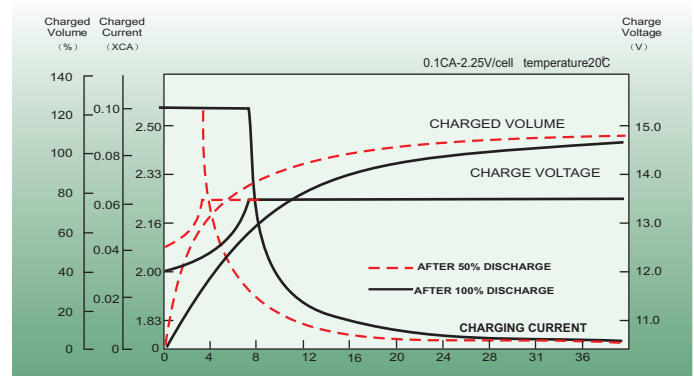
Unit: mm [inches]



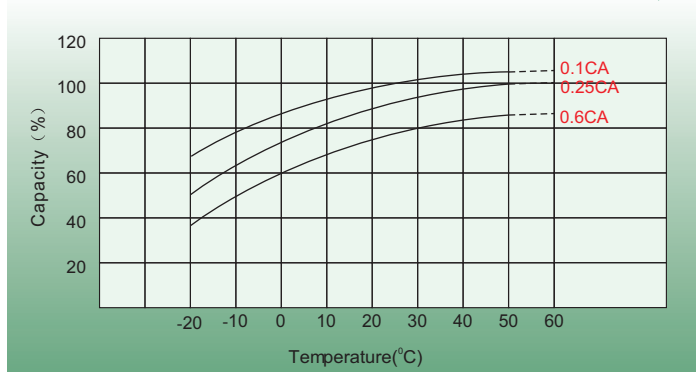
Discharge Characteristics



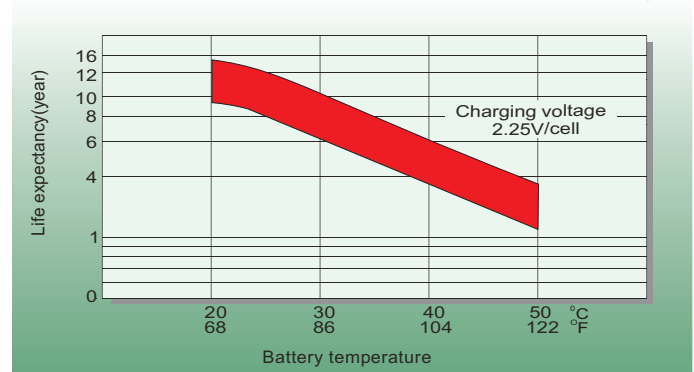
Float Charging Characteristics



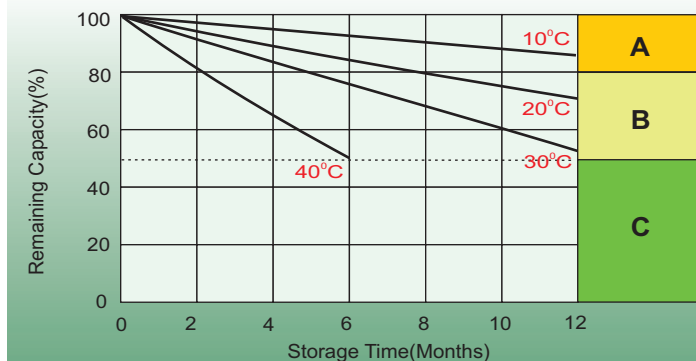
Temperature Effects in Relation to Battery Capacity



Effect of Temperature on Long Term Float Life



Self Discharge Characteristics



- A** No supplementary charge required
(Carry out supplementary charge before use if 100% capacity is required.)
- B** Supplementary charge required before use. Optional charging way as below:
 1. Charged for above 3 days at limited current 0.25CA and constant voltage 2.25V/cell.
 2. Charged for above 20 hours at limited current 0.25CA and constant voltage 2.45V/cell.
 3. Charged for 8~10 hours at limited current 0.05CA.
- C** Supplementary charge may often fail to recover the capacity.
The battery should never be left standing till this is reached.