

### Specification

Nominal Voltage	12V	
Nominal Capacity(20HR)	200.0AH	
Dimension	Length	530±2mm (20.87 inches)
	Width	209±2mm (8.23 inches)
	Container Height	214±2mm (8.43 inches)
	Total Height (with Terminal)	220±2mm (8.66 inches)
	Approx Weight	Approx 52.80 Kg (116.4lbs)
Terminal	T11	
Container Material	ABS	
Rated Capacity	200.0AH/10.0A	(20hr, 1.80V/cell, 25°C/77°F)
	185.0AH/18.5A	(10hr, 1.80V/cell, 25°C/77°F)
	158.0AH/31.6A	(5hr, 1.75V/cell, 25°C/77°F)
	140.7AH/46.9A	(3hr, 1.75V/cell, 25°C/77°F)
	116.3AH/116.3A	(1hr, 1.60V/cell, 25°C/77°F)
Internal Resistance	Approx 3.0mΩ	
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 54.0A. Voltage	
	14.4V~15.0V at 25°C(77°F)Temp. Coefficient -30mV/°C	
Standby Use	No limit on Initial Charging Current Voltage	
	13.5V~13.8V at 25°C(77°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 LPC 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

- ◆ Electric tools
- ◆ Vehicle in place of walking
- ◆ Lawn mowers
- ◆ Golf trolleys and golf cart
- ◆ Portable apparatus, lights and instruments;
- ◆ Electric toys
- ◆ Illumination light
- ◆ Fire alarms
- ◆ Portable power
- ◆ Wheelchairs
- ◆ Medical equipments.

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

F.V/Time	10min	15min	20min	30min	45min	1h	2h	3h	4h	5h	6h	8h	10h	20h
1.85V/cell	229.0	200.2	176.0	141.8	107.8	89.9	55.8	41.6	33.7	28.7	25.0	20.4	17.0	9.91
1.80V/cell	281.9	230.4	199.3	157.7	123.1	100.7	60.9	45.2	36.5	30.8	26.8	21.6	18.0	10.0
1.75V/cell	327.2	261.4	219.2	170.3	129.6	105.3	63.2	46.9	37.7	31.6	27.5	22.0	18.2	10.1
1.70V/cell	353.2	279.4	234.4	178.6	133.7	108.6	65.7	48.2	38.6	32.4	28.1	22.3	18.4	10.2
1.65V/cell	381.2	295.2	244.6	185.4	139.2	112.3	67.5	49.5	39.5	33.3	28.7	22.7	18.7	10.3
1.60V/cell	412.6	313.9	258.7	194.4	145.0	116.3	69.8	50.8	40.4	34.0	29.4	22.9	18.9	10.4

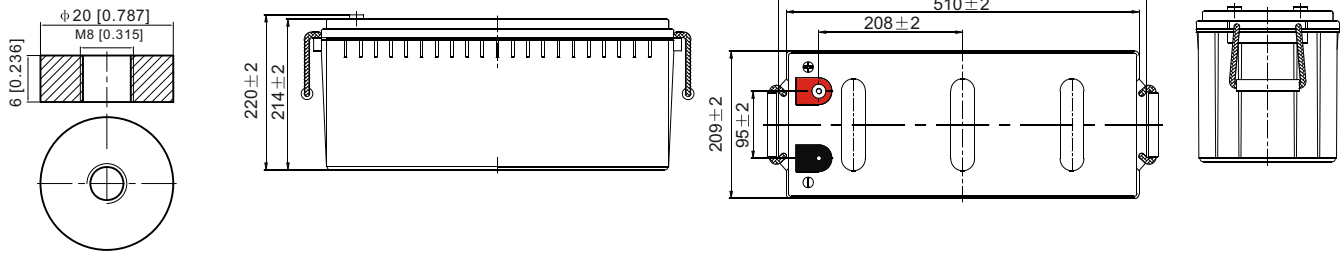
### Constant Power Discharge (Watts) at 25 °C (77°F)

F.V/Time	10min	15min	20min	30min	45min	1h	2h	3h	4h	5h	6h	8h	10h	20h
1.85V/cell	427.2	377.4	335.5	272.6	208.5	174.5	108.8	81.4	66.0	56.3	49.4	40.4	33.7	19.1
1.80V/cell	518.9	427.9	374.0	299.3	236.2	194.3	118.0	87.8	71.1	60.2	52.8	42.8	35.6	19.3
1.75V/cell	595.0	480.8	408.1	321.7	247.5	202.5	122.1	91.0	73.3	61.7	54.1	43.5	36.0	19.4
1.70V/cell	633.2	510.1	433.8	336.0	254.5	208.3	126.6	93.2	74.9	63.1	55.2	44.0	36.3	19.8
1.65V/cell	678.6	535.5	450.6	347.3	264.1	214.6	129.8	95.5	76.4	64.8	56.3	44.7	37.0	20.0
1.60V/cell	722.0	562.7	471.6	360.6	272.5	220.4	133.3	97.4	77.8	65.9	57.4	45.0	37.4	20.1

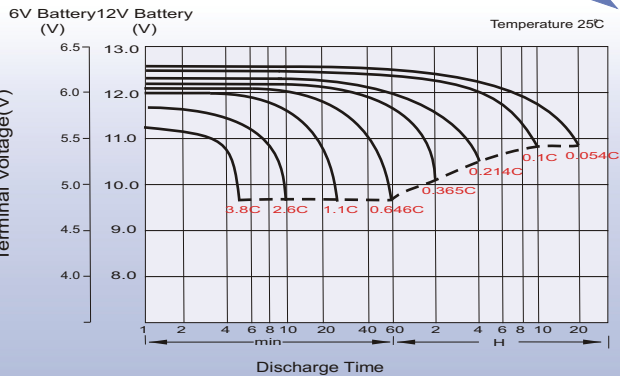
## Dimensions

### T11 Terminal

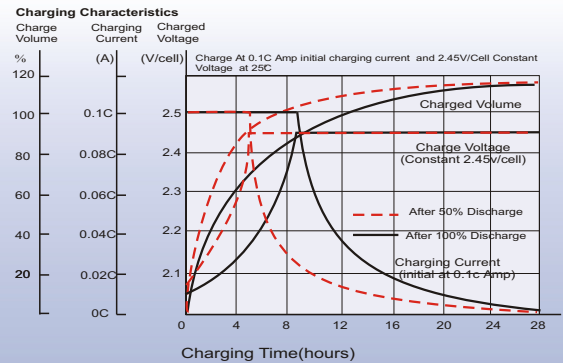
Unit: mm [inches]



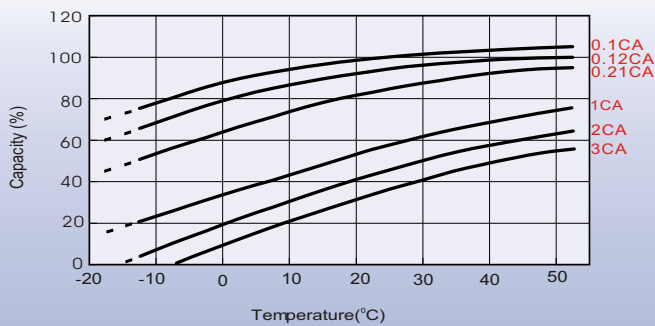
## Discharge Characteristics



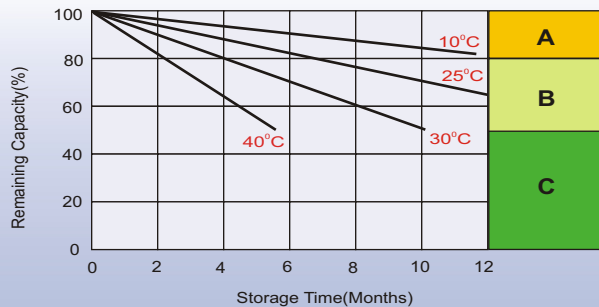
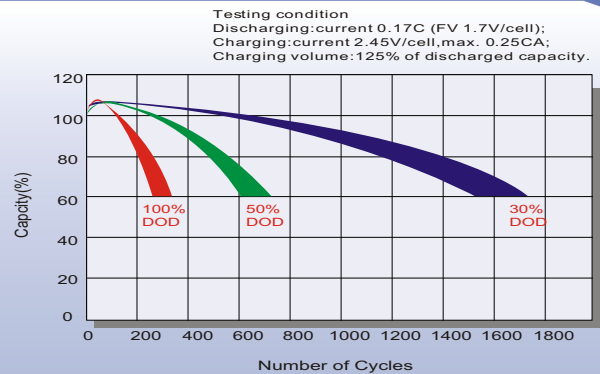
## Charging Characteristics (cycle use)



## Temperature Effects in Relation to Batter Capacity



## Cycle Life in Relation to Depth of Discharge



## 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 volatge 2.25V/cell.
  2. Charged for above 20hours at limited current 0.25CA and constant volatge 2.45V/cell.
  3. Charged for 8~10hours 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.

## Sales Office

### China sales office:

Add: 5th Floor, Xinbaohui Bldg., Nanhai Blvd.,  
Nanshan, Shenzhen, China. 518052  
Tel: +8 6-755-86036060 (100 lines)  
Fax: +86-755-26067269  
E-mail: export@leoch.com  
Http://www.leoch.com

### North America sales office:

Add: 19751 Descartes, Unit A,  
Foothill Ranch, CA 92610, USA  
Tel: 949-588-5853  
Fax: 949-588-5966  
E-mail: sales@leoch.us  
Http://www.leoch.us

### Europe sales office:

Add: 9B Wheatstone Park, Waterwells  
Business Park, Gloucester, GL2 2AQ. UK.  
Tel: +44(0) 01452 729428  
Fax: +44 (0)1452-690125  
E-mail: Sales.Europe@leoch.com

### Singapore sales office:

Add: No.53, Ubi Avenue 1, #03-21 Paya  
Ubi Industrial Park, Singapore 408934  
Tel: + 65 6841 6629  
E-mail: sales.sg@leoch.com

### HongKong sales office:

Add: Unit 3910, 39/F, Cable TV Tower, No.9  
Hoi Shing Road, Tsuen Wan, NT. H.K  
Tel: +852 3578 6666  
E-mail: sales.hk@leoch.com