

Specification

Nominal Voltage	12V	
Nominal Capacity(8HR)	250.0AH	
Dimension	Length	522±3mm (20.55 inches)
	Width	268±2mm (10.55 inches)
	Container Height	220±2mm (8.66 inches)
	Total Height (with Terminal)	226±2mm (8.90 inches)
Approx Weight	Approx 73.0 kg (161.0lbs)	
Terminal	T11	
Container Material	ABS	
Rated Capacity	255.0 AH/25.5A	(10hr, 1.80V/cell, 25°C/77°F)
	250.0 AH/31.3A	(8hr, 1.75V/cell, 25°C/77°F)
	222.5 AH/44.5A	(5hr, 1.75V/cell, 25°C/77°F)
	202.5 AH/67.5A	(3hr, 1.75V/cell, 25°C/77°F)
	164.3 AH/164.3A	(1hr, 1.60V/cell, 25°C/77°F)
Max. Discharge Current	2500A (5s)	
Internal Resistance	Approx 2.5mΩ	
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 75.0A. 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 LPX 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

- ◆ UPS (High rate)
- ◆ High power backup supply
- ◆ Emergency power supply
- ◆ Starting system
- ◆ Power tools
- ◆ Emergency lighting
- ◆ Electric starting



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

F.V/Time	5min	10min	15min	20min	30min	45min	1h	2h	3h	4h	5h	6h	8h	10h	20h
1.85V/cell	479.2	369.5	312.1	272.8	202.5	154.3	127.0	79.7	61.6	49.3	40.4	35.0	29.0	24.0	13.4
1.80V/cell	\	472.2	377.0	322.4	238.9	179.5	142.2	87.0	66.3	52.6	43.4	37.5	30.7	25.5	13.6
1.75V/cell	\	\	411.8	346.8	248.0	186.2	148.8	90.2	67.5	53.8	44.5	38.5	31.3	25.7	13.7
1.70V/cell	\	\	439.7	364.5	258.2	193.7	153.5	93.8	69.4	55.2	45.6	39.3	31.7	26.0	13.9
1.65V/cell	\	\	467.5	387.3	272.3	198.5	158.6	96.4	72.4	57.1	46.9	40.2	32.2	26.5	14.1
1.60V/cell	\	\	500.0	412.5	287.5	206.9	164.3	99.6	74.6	58.9	48.5	41.0	32.5	26.8	14.2

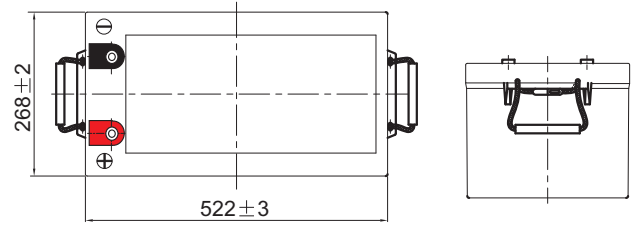
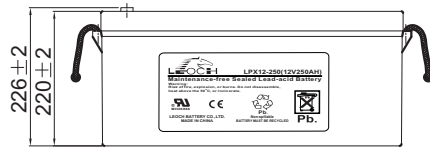
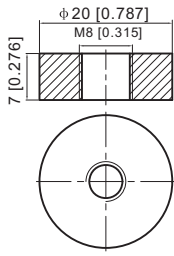
Constant Power Discharge (Watts) at 25 °C (77°F)

F.V/Time	5min	10min	15min	20min	30min	45min	1h	2h	3h	4h	5h	6h	8h	10h	20h
1.85V/cell	885.7	689.9	588.6	519.6	390.0	299.6	247.4	156.3	121.3	97.3	80.0	69.4	57.8	48.0	26.8
1.80V/cell	\	871.4	701.6	605.3	453.1	345.8	275.7	169.5	129.8	103.3	85.5	74.1	61.1	50.8	27.1
1.75V/cell	\	\	757.1	644.9	466.6	355.5	287.1	175.1	131.7	105.2	87.4	75.9	62.0	51.2	27.3
1.70V/cell	\	\	797.1	672.8	483.0	368.3	295.2	181.7	135.1	107.8	89.5	77.4	62.8	51.7	27.8
1.65V/cell	\	\	841.2	709.4	505.4	374.1	303.0	185.7	140.3	111.1	91.7	78.9	63.6	52.7	28.1
1.60V/cell	\	\	884.9	747.6	529.9	387.9	312.1	191.0	143.9	114.3	94.4	80.3	64.1	53.2	28.2

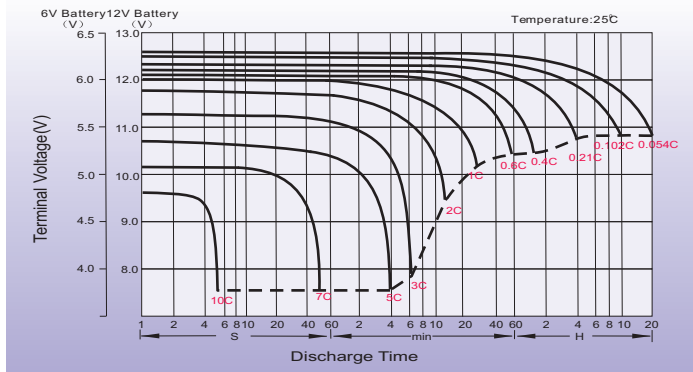
Dimensions

T11 Terminal

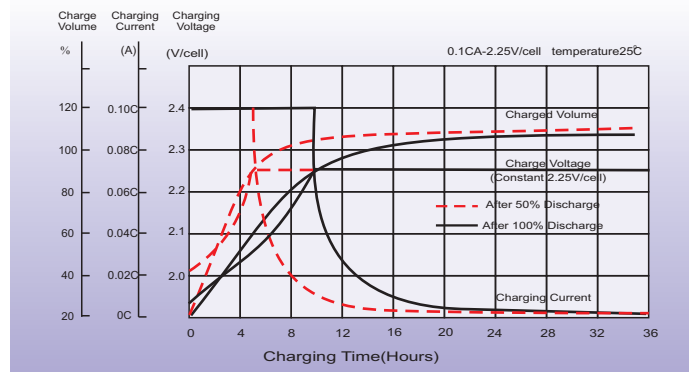
Unit: mm [inches]



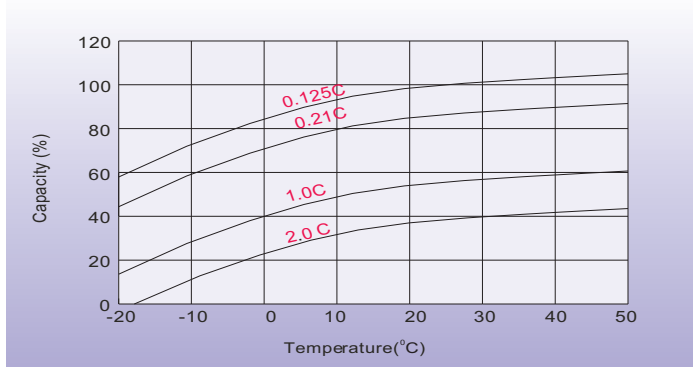
Discharge Characteristics



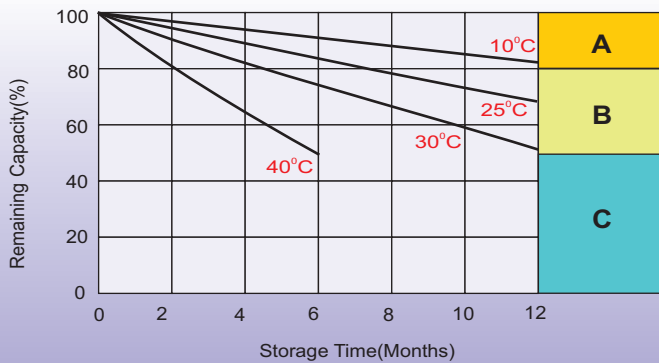
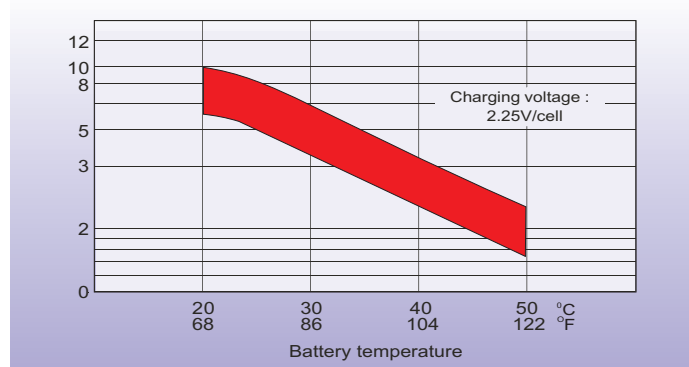
Float Charging Characteristics



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.

Sales Office

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