

# LP SERIES-General Purpose

## LP2-250 (2V250AH)

### Specification

Nominal Voltage	2V	
Nominal Capacity(10HR)	250.0AH	
Dimension	Length	170±2mm (6.69 inches)
	Width	110±2mm (4.33 inches)
	Container Height	328±2mm (12.91 inches)
	Total Height (with Terminal)	350±2mm (13.78 inches)
Approx Weight	Approx 14.0 kg (30.9lbs)	
Terminal	T11	
Container Material	ABS	
Rated Capacity	262.0 AH/13.1A	(20hr, 1.80V/cell, 25°C/77°F)
	250.0 AH/25.0A	(10hr, 1.80V/cell, 25°C/77°F)
	214.0 AH/42.8A	(5hr, 1.75V/cell, 25°C/77°F)
	187.5 AH/62.5A	(3hr, 1.75V/cell, 25°C/77°F)
	150.0 AH/150.0A	(1hr, 1.60V/cell, 25°C/77°F)
Max. Discharge Current	2000A (5s)	
Internal Resistance	Approx 1.0mΩ	
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 75.0A. Voltage	
	2.4V~2.5V at 25°C(77°F)Temp. Coefficient -5mV/°C	
Standby Use	No limit on Initial Charging Current Voltage	
	2.25V~2.3V at 25°C(77°F)Temp. Coefficient -3mV/°C	
Capacity affected by Temperature	40°C (104°F)	103%
	25°C (77°F)	100%
	0°C (32°F)	86%
Self Discharge	Leoch LP 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

- ◆ Tele-communication central station (wired or cellular)
- ◆ Power system communication, military communication, etc.
- ◆ Network communication including: data transmission, television signal transmission, etc.
- ◆ Uninterruptable Power System (UPS- for Telecom)



### 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	291.7	257.0	225.9	200.0	167.1	135.7	110.8	74.3	56.8	45.8	39.2	34.5	27.9	23.9	12.7
1.80V/cell	355.0	300.7	257.4	224.1	183.6	146.0	118.0	78.1	61.5	47.3	40.8	35.9	29.3	25.0	13.1
1.75V/cell	414.9	344.6	291.2	248.4	199.8	158.0	127.0	82.9	62.5	49.9	42.8	37.6	30.0	25.5	13.3
1.70V/cell	474.8	389.6	321.9	273.2	217.1	168.8	134.5	87.5	65.3	52.0	44.5	39.0	31.0	26.1	13.6
1.65V/cell	\	416.5	342.5	288.7	227.4	175.4	139.7	90.4	67.3	53.6	45.7	39.7	31.6	26.6	13.8
1.60V/cell	\	471.7	385.0	321.9	248.8	189.8	150.0	94.9	70.2	55.8	47.8	41.4	32.8	27.4	14.2

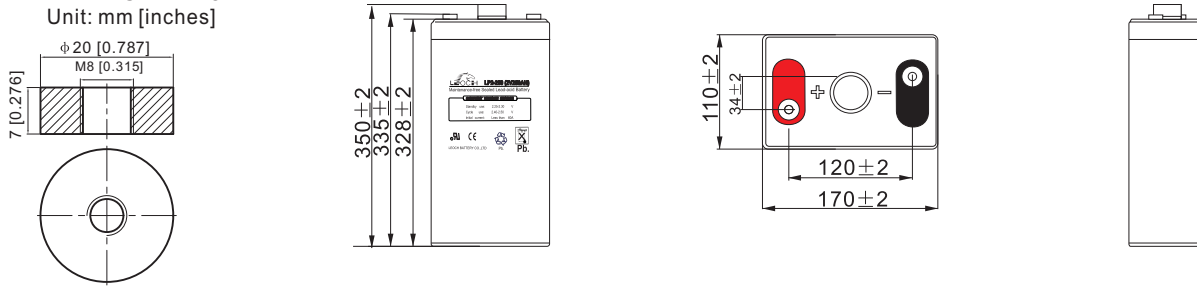
### Constant Power Discharge (Watts) at 25 °C (77°F)

F.V/Time	5min	10min	15min	20min	30min	45min	1h	2h	3h	4h	5h	6h	8h	10h	20h
1.85V/cell	536.2	477.3	423.8	378.9	320.2	262.3	214.8	144.9	111.2	89.9	77.2	68.1	55.4	47.5	25.2
1.80V/cell	645.7	552.0	476.5	418.5	346.5	279.9	227.6	151.5	119.8	92.5	79.9	70.7	57.9	49.6	26.1
1.75V/cell	738.7	622.5	532.5	459.4	373.8	300.1	243.8	160.1	121.3	97.3	83.6	73.8	59.3	50.6	26.4
1.70V/cell	822.1	687.8	580.4	501.4	403.9	319.3	257.3	168.7	126.4	101.1	86.8	76.3	61.1	51.8	26.9
1.65V/cell	\	728.6	612.8	526.1	419.8	329.0	265.4	173.2	129.9	103.8	88.9	77.5	62.1	52.5	27.4
1.60V/cell	\	806.5	677.5	580.2	456.0	353.9	283.5	181.0	134.7	107.8	92.7	80.6	64.3	54.1	28.2

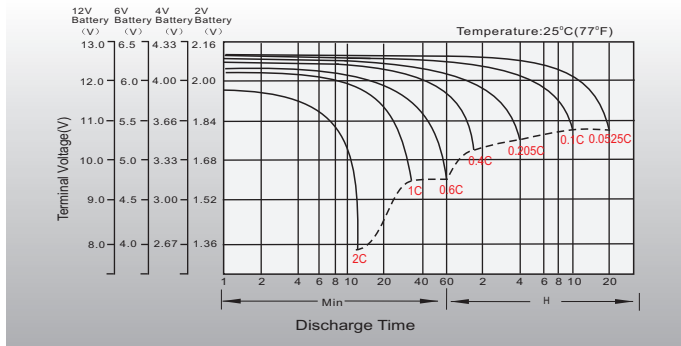
# Dimensions

## T11 Terminal

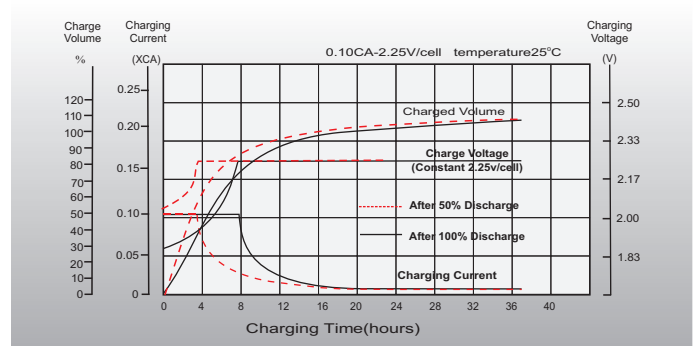
Unit: mm [inches]



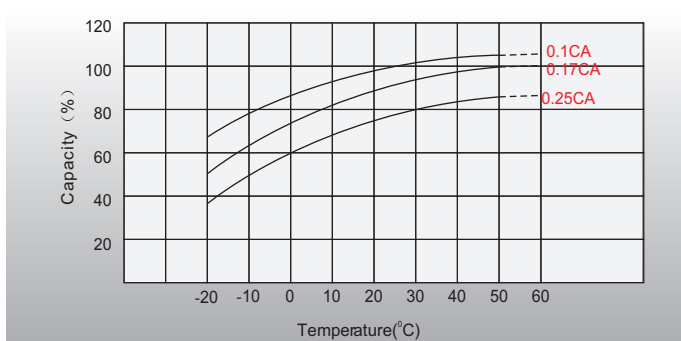
## Discharge Characteristics



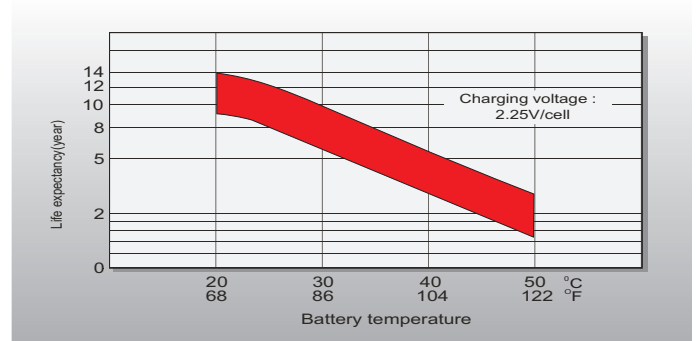
## Float Charging Characteristics



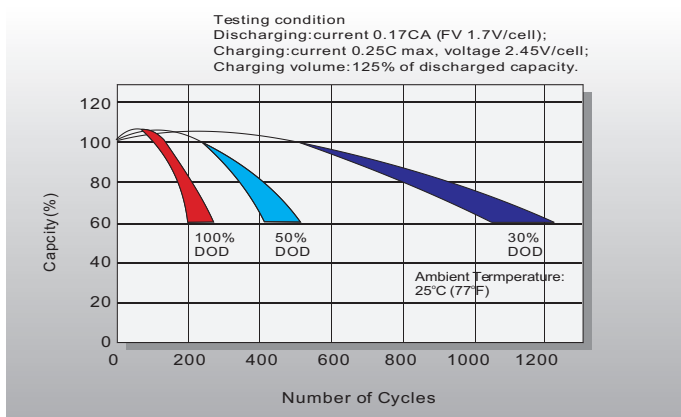
## Temperature Effects in Relation to Battery Capacity



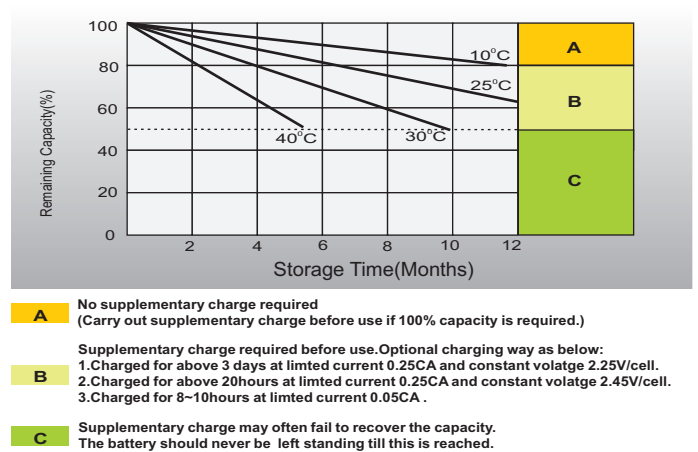
## Effect of Temperature on Long Term Float Life



## Cycle Life in Relation to Depth of Discharge



## Self Discharge Characteristics



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