

LP SERIES-General Purpose

LP12-120 (12V120AH)

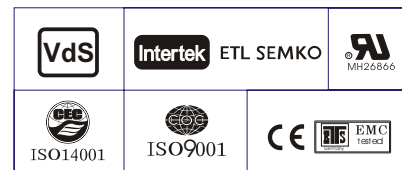
Specification

Nominal Voltage	12V	
Nominal Capacity(10HR)	120.0AH	
Dimensions	Length	408±3mm (16.1 inches)
	Width	177±2mm (6.97 inches)
	Container Height	225±3mm (8.86 inches)
	Total Height (with Terminal)	225±3mm (8.86 inches)
Approx Weight	Approx 35.0 kg (77.2lbs)	
Terminal	T11	
Container Material	ABS	
Rated Capacity	124.8 AH/6.24A	(20hr , 1.80V/cell, 25°C/77°F)
	120.0 AH/12.0A	(10hr, 1.80V/cell, 25°C/77°F)
	103.2 AH/20.64A	(5hr, 1.75V/cell, 25°C/77°F)
	93.6 AH/31.2A	(3hr, 1.75V/cell, 25°C/77°F)
	73.2 AH/73.2A	(1hr, 1.60V/cell, 25°C/77°F)
Max. Discharge Current	1300A (5s)	
Internal Resistance	Approx 4.0mΩ	
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 36.0A. 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 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

- ◆ 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 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	205.4	161.5	137.3	114.9	91.3	69.1	56.6	36.0	28.5	23.0	18.8	16.3	13.3	11.3	6.18
1.80V/cell	275.7	206.3	165.9	135.8	107.7	80.4	63.4	39.3	30.7	24.2	20.1	17.5	14.1	12.0	6.24
1.75V/cell	310.8	226.7	181.2	146.1	111.8	83.4	66.3	40.8	31.2	24.8	20.6	18.0	14.3	12.1	6.30
1.70V/cell	342.3	247.1	193.5	153.5	116.4	86.7	68.4	42.4	32.1	25.4	21.2	18.4	14.5	12.2	6.42
1.65V/cell	377.4	266.7	205.7	163.1	122.8	88.9	70.7	43.6	33.5	26.0	21.8	18.8	14.7	12.5	6.50
1.60V/cell	416.3	289.5	220.0	173.7	129.6	92.6	73.2	45.1	34.5	26.6	22.5	19.2	14.9	12.6	6.54

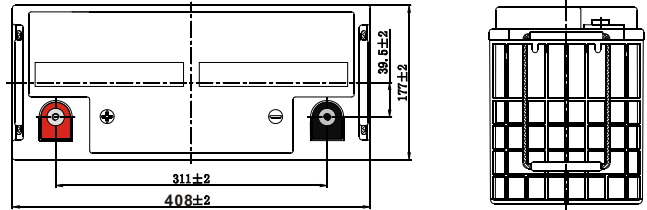
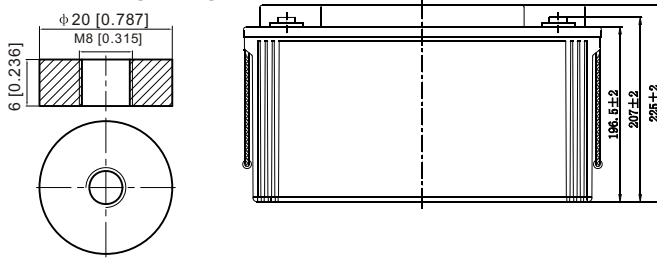
Constant Power Discharge (Watts/cell) at 25 °C (77°F)

F.V/Time	5min	10min	15min	20min	30min	45min	1h	2h	3h	4h	5h	6h	8h	10h	20h
1.85V/cell	375.5	298.3	256.2	216.5	174.0	132.8	109.1	70.0	55.5	45.0	36.8	32.1	26.2	22.4	12.2
1.80V/cell	498.7	376.6	305.4	252.2	202.2	153.2	121.6	75.9	59.4	47.0	39.3	34.3	27.7	23.7	12.3
1.75V/cell	550.3	407.2	329.5	268.7	208.1	157.5	126.6	78.4	60.3	48.1	40.2	35.1	28.1	23.9	12.4
1.70V/cell	589.2	433.8	346.9	280.2	215.4	163.2	130.2	81.3	61.9	49.2	41.1	35.8	28.5	24.1	12.7
1.65V/cell	640.5	463.8	366.0	295.5	225.4	165.8	133.6	83.1	64.2	50.2	42.1	36.5	28.8	24.6	12.8
1.60V/cell	690.1	492.1	385.0	311.3	236.3	171.8	137.6	85.5	65.9	51.1	43.4	37.2	29.1	24.8	12.9

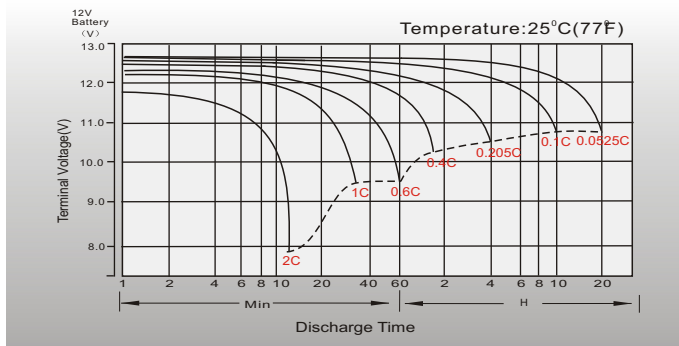
Dimensions

T11 Terminal

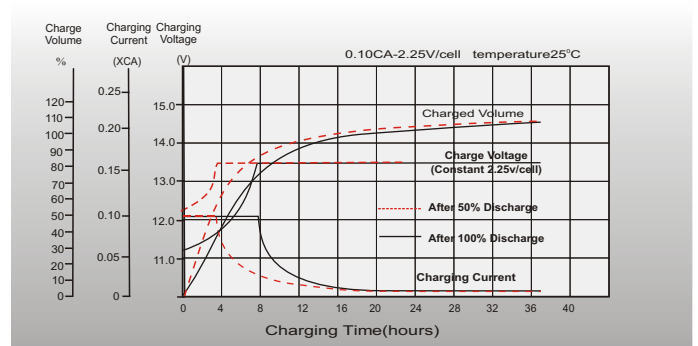
Unit: mm [inches]



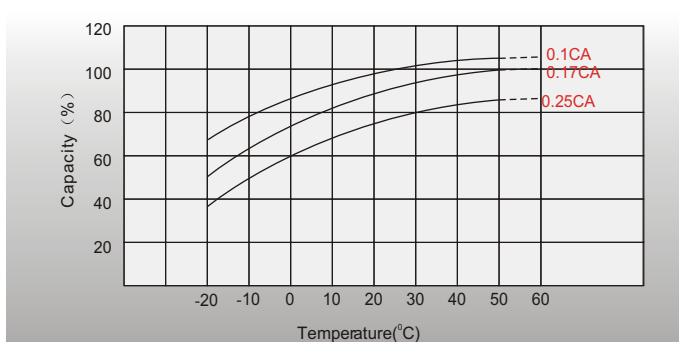
Discharge Characteristics



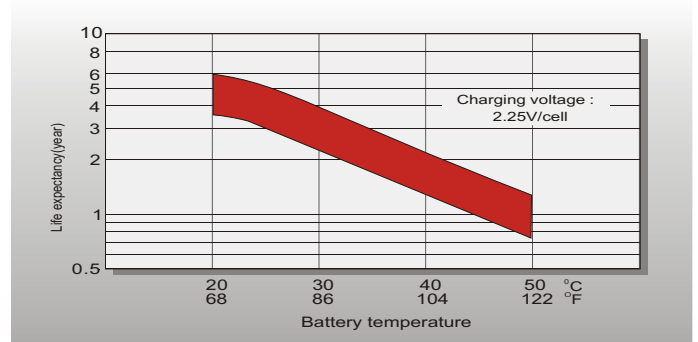
Float Charging Characteristics



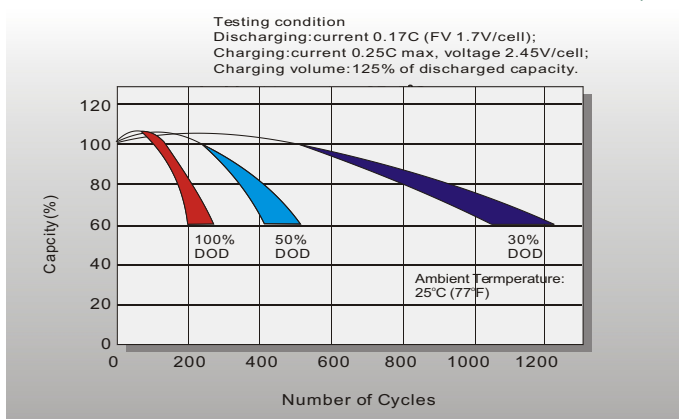
Temperature Effects in Relation to Battery Capacity



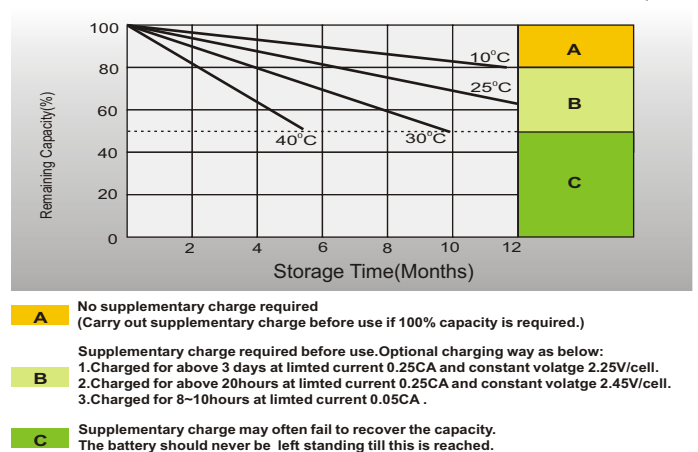
Effect of Temperature on Long Term Float Life



Cycle Life in Relation to Depth of Discharge



Self Discharge Characteristics



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