

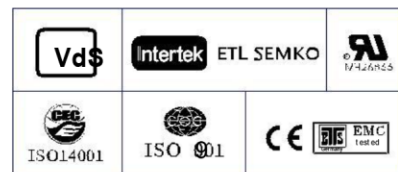
Specification

Nominal Voltage	12V
Nominal Capacity(10HR)	100.0AH
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 30.0 kg (66.15lbs)
Terminal	T11
Container Material	ABS
Rated Capacity	104.0 AH/5.20A (20hr, 1.80V/cell, 25° C/77°F)
	100.0 AH/10.0A (10hr, 1.80V/cell, 25° C/77°F)
	86.0 AH/17.2A (5hr, 1.75V/cell, 25° C/77°F)
	78.0 AH/26.0A (3hr, 1.75V/cell, 25° C/77°F)
	61.0 AH/61.0A (1hr, 1.60V/cell, 25° C/77°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	25 ± 3° C (77 ± 5° F)
Cycle Use	Initial Charging Current less than 30.0A. Voltage 14.4V~15.0V at 25° C (77° F) Temp. Coefficient -30mV/°C
	No limit on Initial Charging Current Voltage 13.5V~13.8V at 25° C (77° F) Temp. Coefficient -20mV/°C
Standby Use	
Capacity affected by Temperature	40° C (104° F) 103%
	25° C (77° F) 100%
	0° C (32° F) 86%
Self Discharge	PowerStar series battery 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	171.2	134.6	114.4	95.7	76.1	57.6	47.1	30.0	23.7	19.4	15.6	13.6	11.0	9.44	5.15
1.80V/cell	229.7	171.9	138.3	113.1	89.8	67.0	52.8	32.8	25.6	20.7	16.8	14.6	11.7	10.0	5.20
1.75V/cell	259.0	188.9	151.0	121.7	93.2	69.5	55.3	34.0	26.0	21.2	17.2	15.0	11.9	10.1	5.25
1.70V/cell	285.2	205.9	161.2	127.9	97.0	72.3	57.0	35.3	26.8	21.7	17.7	15.3	12.1	10.2	5.35
1.65V/cell	314.5	222.2	171.4	135.9	102.3	74.1	58.9	36.3	27.9	22.5	18.1	15.6	12.3	10.4	5.42
1.60V/cell	346.9	241.3	183.4	144.8	108.0	77.2	61.0	37.6	28.7	23.2	18.7	16.0	12.4	10.5	5.45

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

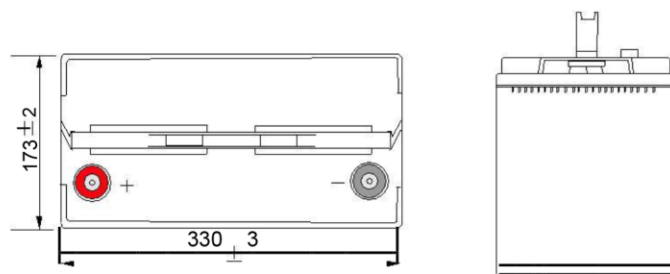
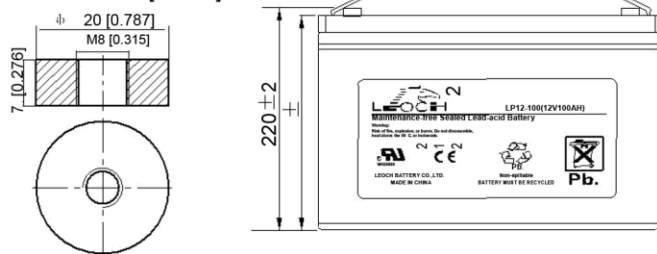
F.V/Time	5min	10min	15min	20min	30min	45min	1h	2h	3h	4h	5h	6h	8h	10h	20h
1.85V/cell	312.9	248.6	213.5	180.4	145.0	110.7	90.9	58.3	46.3	37.9	30.6	26.8	21.8	18.7	10.2
1.80V/cell	415.6	313.9	254.5	210.1	168.5	127.7	101.3	63.2	49.5	40.3	32.8	28.6	23.1	19.8	10.3
1.75V/cell	458.6	339.3	274.6	223.9	173.5	131.3	105.5	65.3	50.2	41.0	33.5	29.3	23.4	19.9	10.4
1.70V/cell	491.0	361.5	289.1	233.5	179.5	136.0	108.5	67.8	51.5	42.0	34.3	29.8	23.7	20.1	10.6
1.65V/cell	533.7	386.5	305.0	246.2	187.8	138.1	111.3	69.3	53.5	43.3	35.1	30.4	24.0	20.5	10.7
1.60V/cell	575.1	410.1	320.8	259.4	196.9	143.2	114.7	71.2	54.9	44.5	36.2	31.0	24.2	20.7	10.8



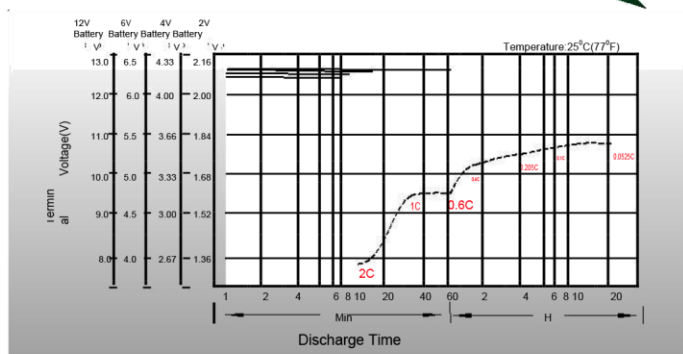
Dimensions

T11 Terminal

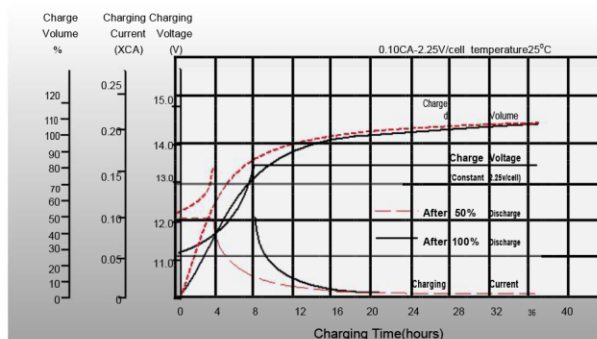
Unit: mm [inches]



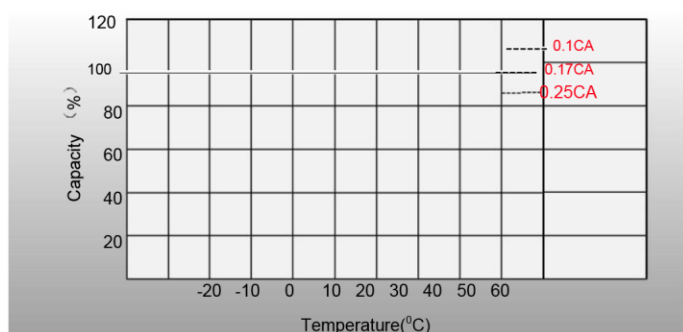
Discharge Characteristics



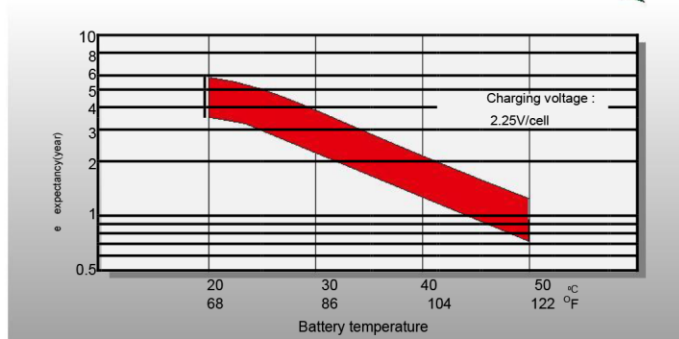
Float Charging Characteristics



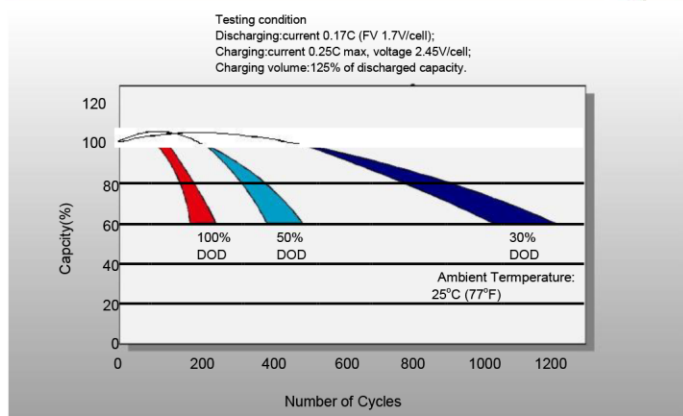
Temperature Effects in Relation to Battery Capacity



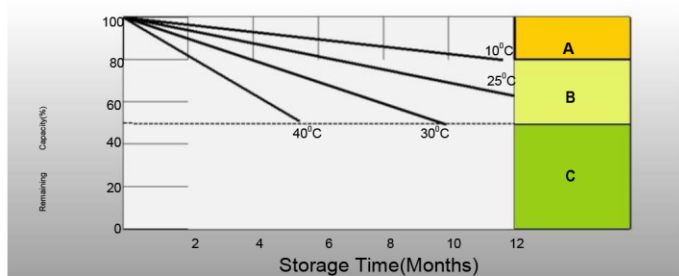
Effect of Temperature on Long Term Float Life



Cycle Life in Relation to Depth of Discharge



Self Discharge Characteristics



- A** No supplementary charge required
(Carry out supplementary charge before use if 100% capacity is required.) 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.
- B** 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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