

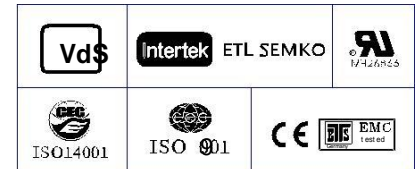
## PS6-10 (6V10AH)

### Specification

Nominal Voltage	6V
Nominal Capacity(20HR)	10.0AH
Dimension	Length 15± 1mm (5.94 inches)
	Width 5± 1mm (2.01 inches)
	Container Height 94± 1mm (3.70 inches)
	Total Height (with Terminal) 100± 1mm (3.94 inches)
Approx Weight	Approx 1.62 kg (3.57lbs)
Terminal	T1 / T2
Container Material	ABS
Rated Capacity	10.0 AH/0.50A (20hr, 1.80V/cell, 25°C/77°F)
	9.30 AH/0.93A (10hr, 1.80V/cell, 25°C/77°F)
	8.10 AH/1.70A (5hr, 1.75V/cell, 25°C/77°F)
	7.65 AH/2.55A (3hr, 1.75V/cell, 25°C/77°F)
	6.28 AH/6.28A (1hr, 1.60V/cell, 25°C/77°F)
Max. Discharge Current	150A (5s)
Internal Resistance	Approx 17mΩ
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 3.0A. Voltage 7.2V~7.5V at 25° C (77° F) Temp. Coefficient -15mV/°C
	No limit on Initial Charging Current Voltage 6.75V~6.9V at 25° C (77° F) Temp. Coefficient -10mV/°C
Standby Use	40° C (104° F) 103% 25° C (77° F) 100% 0° C (32° F) 86%
Capacity affected by Temperature	PowerStar 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.
Self Discharge	



- ◆ 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	19.0	14.6	12.1	10.5	8.10	5.97	5.03	2.97	2.33	1.89	1.54	1.34	1.080	0.902	0.495
1.80V/cell	25.6	18.7	14.6	12.4	9.56	6.94	5.63	3.25	2.50	2.02	1.66	1.44	1.145	0.930	0.500
1.75V/cell	28.8	20.5	16.0	13.3	9.92	7.20	5.89	3.37	2.55	2.07	1.70	1.48	1.165	0.955	0.505
1.70V/cell	31.7	22.4	17.1	14.0	10.3	7.49	6.08	3.45	2.62	2.12	1.74	1.51	1.181	0.974	0.514
1.65V/cell	35.0	24.2	18.1	14.9	10.9	7.68	6.22	3.50	2.73	2.19	1.79	1.54	1.200	0.994	0.521
1.60V/cell	38.6	26.2	19.4	15.8	11.5	8.00	6.28	3.65	2.82	2.26	1.85	1.57	1.212	1.005	0.524

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

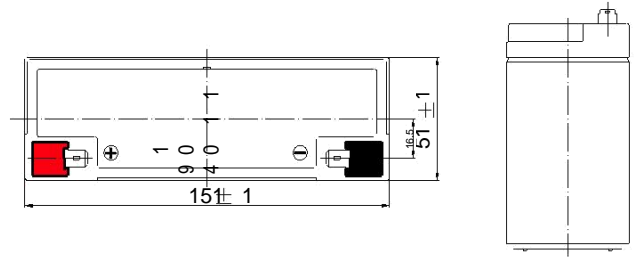
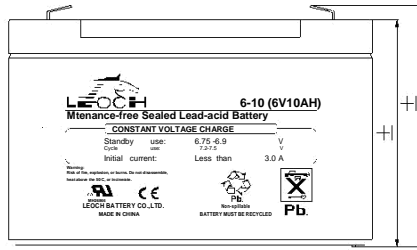
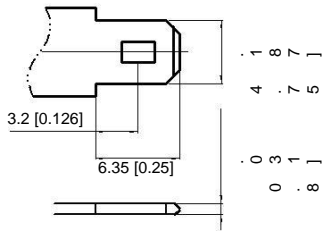
F.V/Time	5min	10min	15min	20min	30min	45min	1h	2h	3h	4h	5h	6h	8h	10h	20h
1.85V/cell	34.8	27.0	22.6	19.7	15.4	11.5	9.7	5.78	4.54	3.70	3.03	2.63	2.13	1.79	0.981
1.80V/cell	46.2	34.1	26.9	23.0	17.9	13.2	10.8	6.26	4.85	3.93	3.23	2.81	2.25	1.84	0.989
1.75V/cell	51.0	36.9	29.1	24.5	18.5	13.6	11.3	6.47	4.92	4.00	3.31	2.88	2.29	1.88	0.998
1.70V/cell	54.6	39.3	30.6	25.6	19.1	14.1	11.6	6.62	5.05	4.10	3.38	2.94	2.32	1.92	1.015
1.65V/cell	59.4	42.0	32.3	26.9	20.0	14.3	11.8	6.67	5.24	4.23	3.47	2.99	2.35	1.96	1.027
1.60V/cell	64.0	44.6	34.0	28.4	21.0	14.8	11.8	6.93	5.38	4.35	3.57	3.04	2.37	1.98	1.032



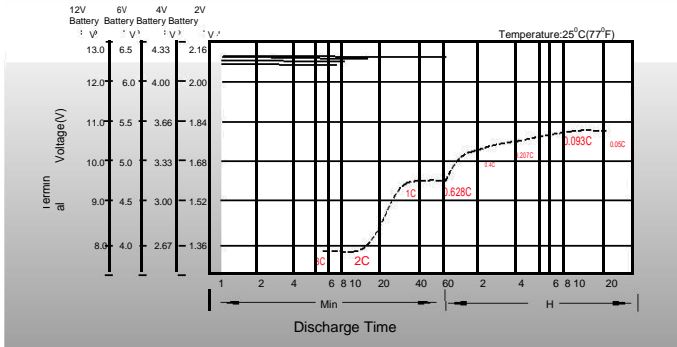
# Dimensions

## T1 Terminal

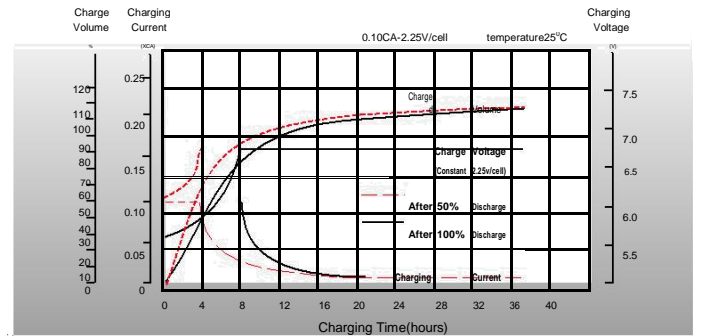
Unit: mm [inches]



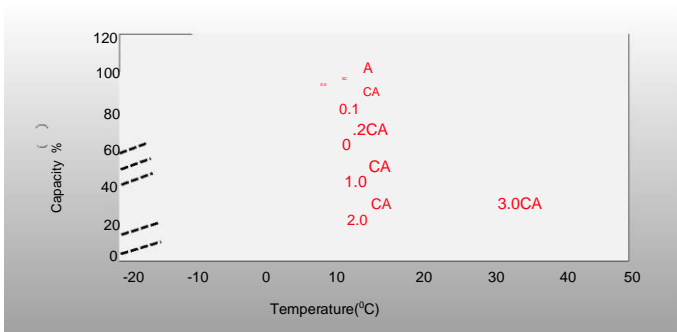
## Discharge Characteristics



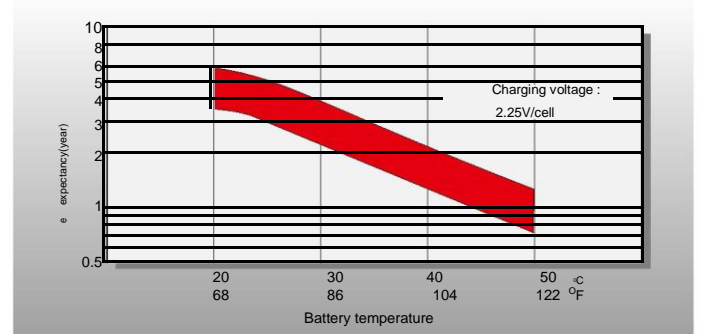
## Float Charging Characteristics



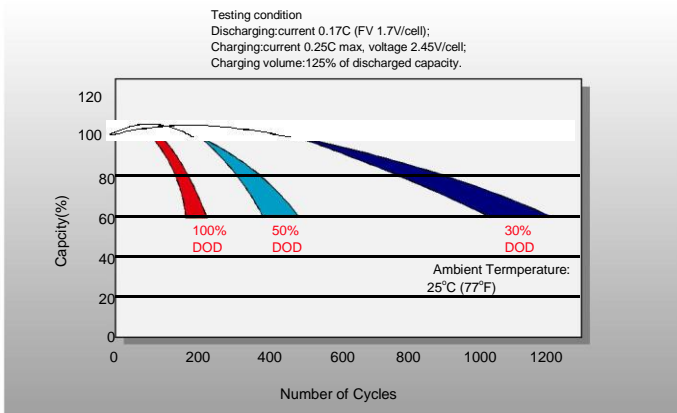
## Temperature Effects in Relation to Battery Capacity



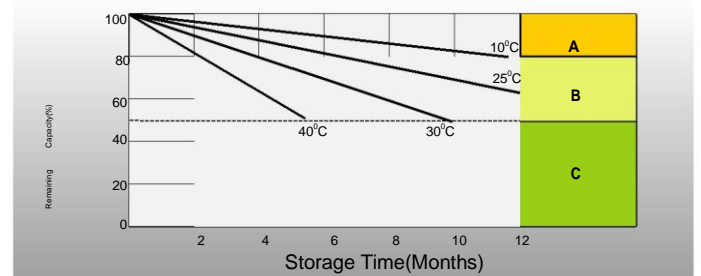
## Effect of Temperature on Long Term Float Life



## 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 20hours at limited current 0.25CA and constant voltage 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

PowerStar sales office:

Add: BatteryJack Inc  
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 Fax: 815-467-7420  
 E-mail: sales@batteryjack.com  
 Http://www.powerstarsla.com

