

## PS6-5 (6V5.0AH)

### Specification

Nominal Voltage	6V
Nominal Capacity(20HR)	5.0AH
Dimension	Length 70± 1mm (2.76 inches)
	Width 47± 1mm (1.85 inches)
	Container Height 100± 2mm (3.94 inches)
	Total Height (with Terminal) 106± 2mm (4.17 inches)
Approx Weight	Approx 0.81 kg (1.79lbs)
Terminal	T1
Container Material	ABS
Rated Capacity	4.50 AH/0.225A (20hr ,1.80V/cell,25°C/77°F)
	4.19 AH/0.419A (10hr,1.80V/cell,25°C/77°F)
	3.85 AH/0.77A (5hr,1.75V/cell,25°C/77°F)
	3.45 AH/1.15A (3hr,1.75V/cell,25°C/77°F)
	2.65 AH/2.65A (1hr,1.60V/cell,25°C/77°F)
Max. Discharge Current	67.5A (5s)
Internal Resistance	Approx 25mΩ
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 1.35A. 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%
Capacity affected by Temperature	25° C (77° F) 100%
	0° C (32° F) 86%
	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	8.57	6.58	5.45	4.71	3.64	2.68	2.26	1.34	1.05	0.85	0.69	0.60	0.486	0.406	0.223
1.80V/cell	11.5	8.41	6.59	5.57	4.30	3.12	2.53	1.46	1.13	0.91	0.75	0.65	0.515	0.419	0.225
1.75V/cell	13.0	9.24	7.19	5.99	4.46	3.24	2.65	1.51	1.15	0.93	0.77	0.66	0.524	0.430	0.227
1.70V/cell	14.3	10.1	7.68	6.30	4.65	3.37	2.74	1.55	1.18	0.95	0.78	0.68	0.532	0.438	0.231
1.65V/cell	15.7	10.9	8.17	6.69	4.90	3.45	2.80	1.58	1.23	0.99	0.81	0.69	0.540	0.447	0.234
1.60V/cell	17.4	11.8	8.73	7.13	5.18	3.60	2.83	1.64	1.27	1.02	0.83	0.71	0.545	0.452	0.236

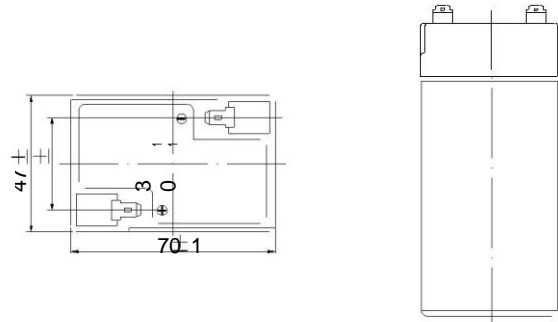
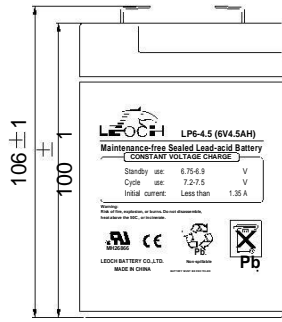
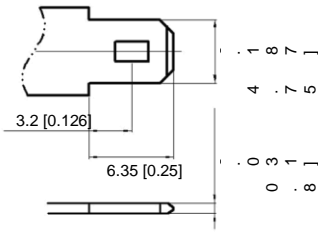
### Constant Power Discharge (Watts) at 25 °C (77°F)

F.V/Time	5min	10min	15min	20min	30min	45min	1h	2h	3h	4h	5h	6h	8h	10h	20h
1.85V/cell	15.7	12.2	10.2	8.88	6.95	5.16	4.37	2.60	2.04	1.66	1.36	1.18	0.959	0.803	0.441
1.80V/cell	20.8	15.4	12.1	10.3	8.07	5.96	4.86	2.82	2.18	1.77	1.45	1.27	1.014	0.827	0.445
1.75V/cell	23.0	16.6	13.1	11.0	8.31	6.12	5.06	2.91	2.22	1.80	1.49	1.30	1.030	0.848	0.449
1.70V/cell	24.6	17.7	13.8	11.5	8.60	6.34	5.21	2.98	2.27	1.85	1.52	1.32	1.043	0.864	0.457
1.65V/cell	26.7	18.9	14.5	12.1	9.00	6.44	5.29	3.00	2.36	1.90	1.56	1.35	1.057	0.881	0.462
1.60V/cell	28.8	20.1	15.3	12.8	9.43	6.68	5.31	3.12	2.42	1.96	1.61	1.37	1.065	0.889	0.464

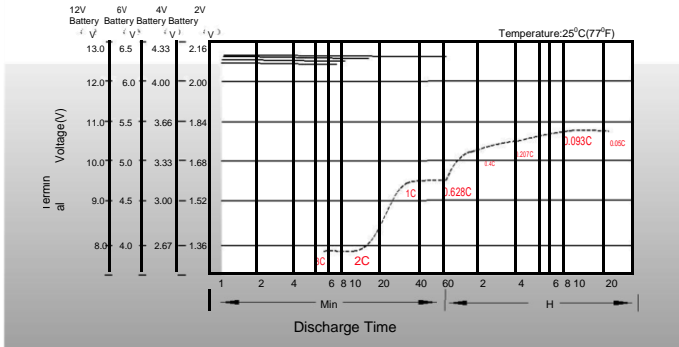
# Dimensions

## T1 Terminal

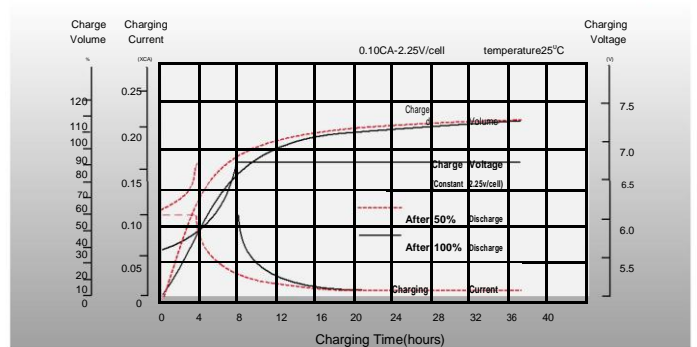
Unit: mm [inches]



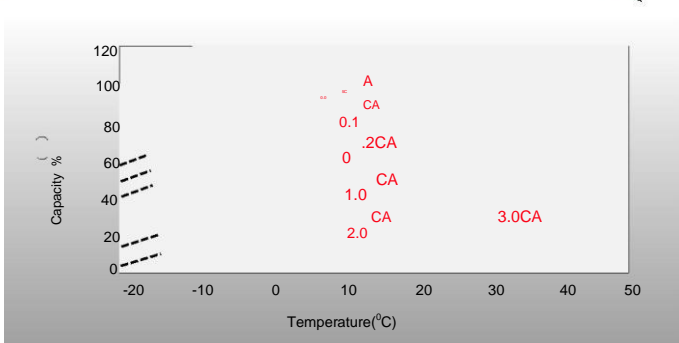
# Discharge Characteristics



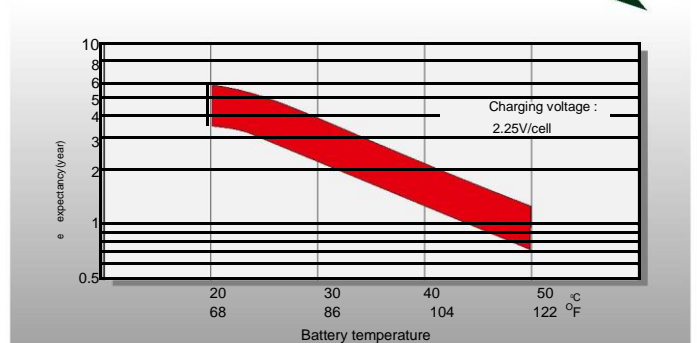
# Float Charging Characteristics



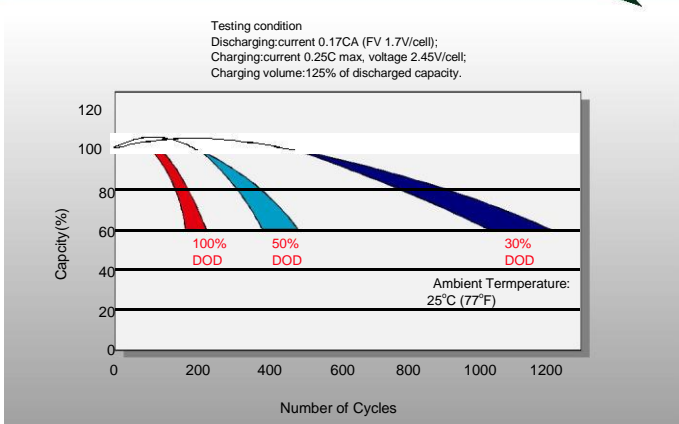
# Temperature Effects in Relation to Battery Capacity



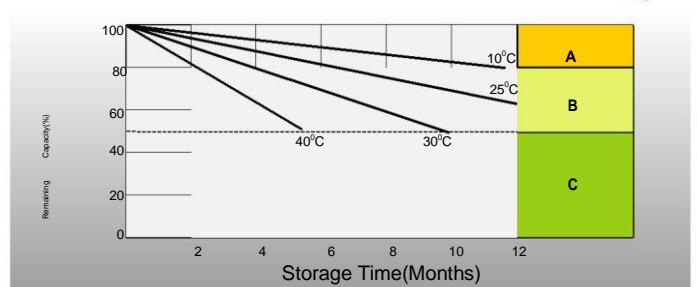
# Effect of Temperature on Long Term Float Life



# 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 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

PowerStar sales office:

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