



General Purpose

PS12-10S (12V10AH)

Nominal Voltage	12V
Nominal Capacity(20HR)	10.0AH
Dimension	Length 151 mm (5.88 inches)
	Width 65 mm (2.38 inches)
	Container Height 111 mm (4.38 inches)
	Total Height (with Terminal) 117 mm (4.61 inches)
Approx Weight	Approx 3.20 kg (7.06lbs)
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 22mΩ
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 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	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.



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



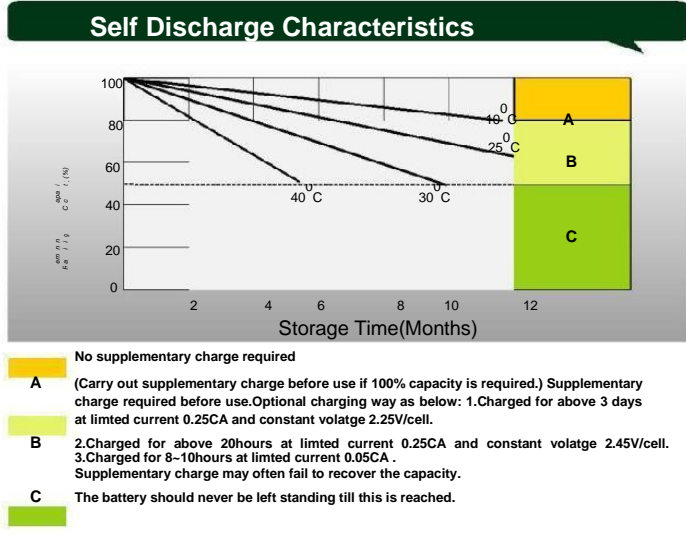
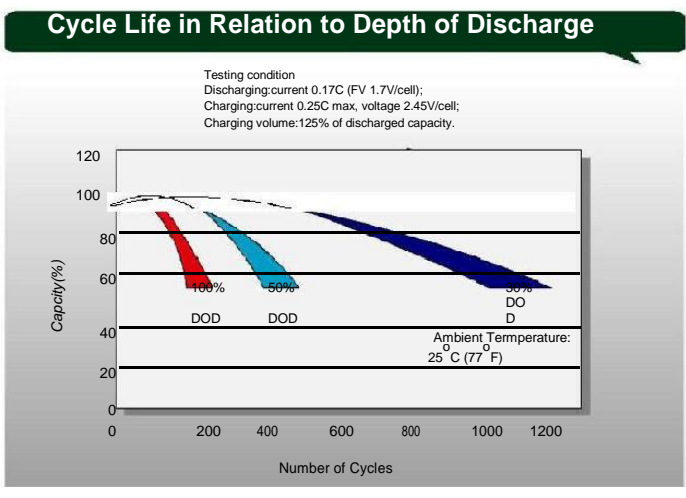
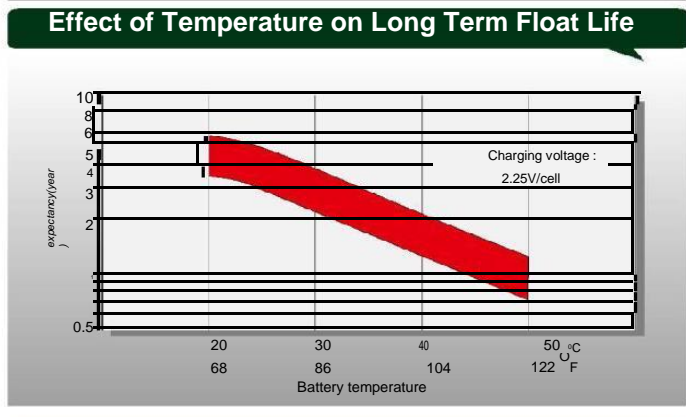
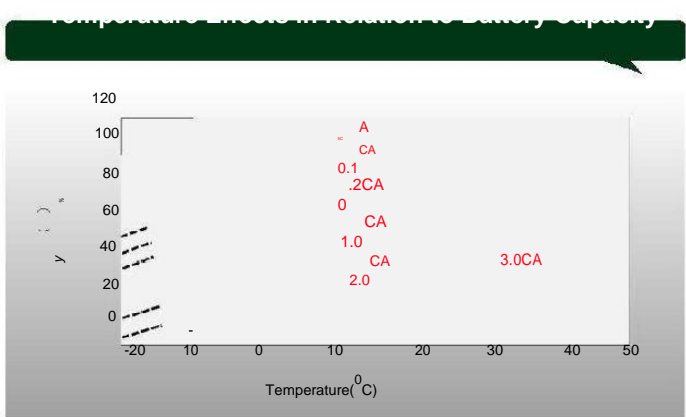
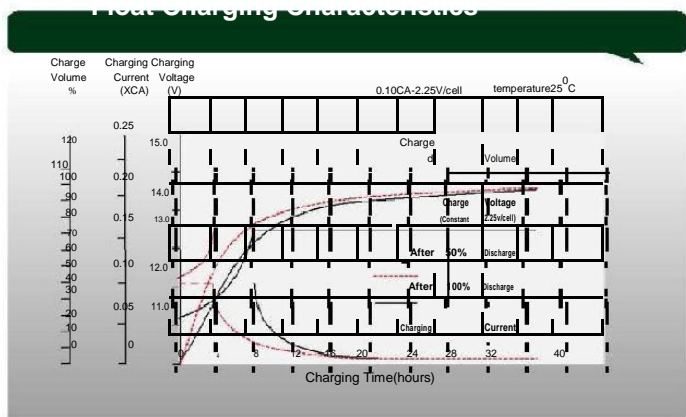
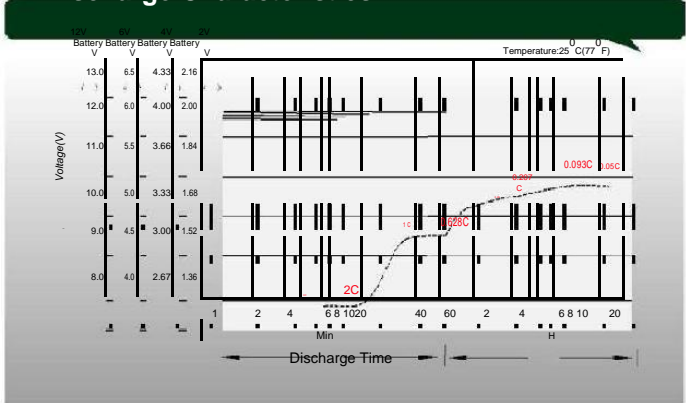
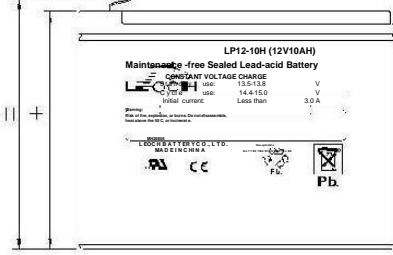
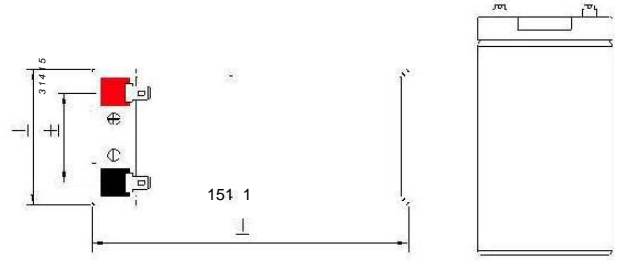
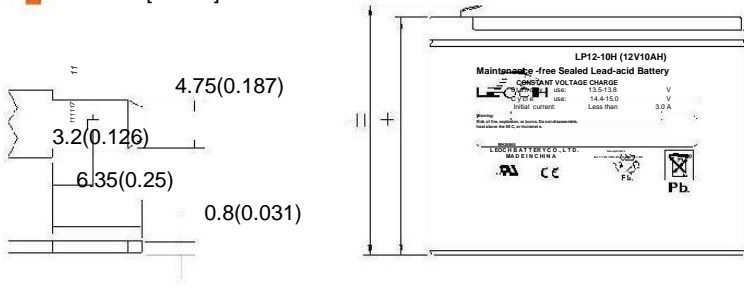
Constant Current Discharge (Amperes) at 25°C (77°F)

F.V/Time	5min	10min	15min	20min	30min	45min	1h	2h	3h	4h	5h	6h	8h	10h	20h
1.85V/cell	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

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

T1 Terminal

Unit: mm [inches]



Sales Office

PowerStar sales office:
 Add: BatteryJack Inc
 772 Twin Rail Dr, Minooka, IL
 60447 Tel:888-30-POWER
 Fax: 815-467-7420
 E-mail: sales@batteryjack.com
 Http://www.powerstarsla.com

- A** No supplementary charge required
- B** (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.
- C** 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. Supplementary charge may often fail to recover the capacity.
- C** The battery should never be left standing till this is reached.