

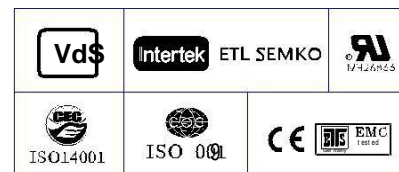
## PS12-12 (12V12AH)



Specification	
Nominal Voltage	12V
Nominal Capacity(20HR)	12.0AH
Dimension	Length 154 1mm (5.95 inches)
	Width 98 1mm (3.86 inches)
	Container Height 95 1mm (3.74 inches)
	Total Height (with Terminal) 104 1mm (3.98 inches)
Approx Weight	Approx 4.20 kg (9.26lbs)
Terminal	T1 / T2
Container Material	ABS
Rated Capacity	12.0 AH/0.70A (20hr, 1.80V/cell, 25°C/77°F)
	11.4 AH/1.30A (10hr, 1.80V/cell, 25°C/77°F)
	10.9 AH/2.38A (5hr, 1.75V/cell, 25°C/77°F)
	10.71 AH/3.57A (3hr, 1.75V/cell, 25°C/77°F)
	8.79 AH/8.79A (1hr, 1.60V/cell, 25°C/77°F)
Max. Discharge Current	210A (5s)
Internal Resistance	Approx 14mΩ
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 4.2A. 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	26.7	20.5	17.0	14.7	11.3	8.35	7.04	4.16	3.26	2.65	2.16	1.87	1.51	1.26	0.693
1.80V/cell	35.8	26.2	20.5	17.3	13.4	9.71	7.89	4.54	3.51	2.83	2.32	2.01	1.60	1.30	0.700
1.75V/cell	40.3	28.7	22.4	18.6	13.9	10.1	8.25	4.71	3.57	2.89	2.38	2.07	1.63	1.34	0.707
1.70V/cell	44.4	31.3	23.9	19.6	14.5	10.5	8.51	4.83	3.67	2.97	2.44	2.11	1.65	1.36	0.720
1.65V/cell	49.0	33.8	25.4	20.8	15.3	10.7	8.71	4.90	3.83	3.07	2.51	2.15	1.68	1.39	0.729
1.60V/cell	54.0	36.7	27.2	22.2	16.1	11.2	8.79	5.11	3.94	3.17	2.59	2.20	1.70	1.41	0.734

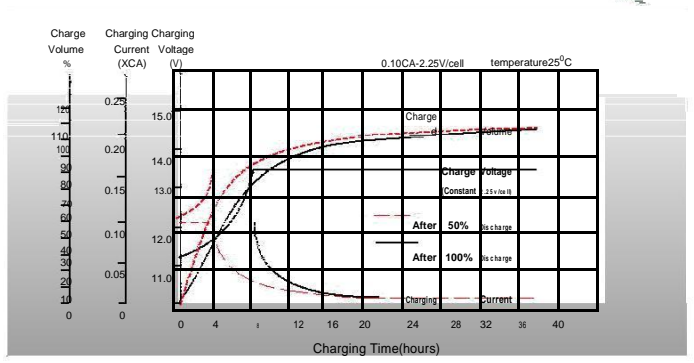
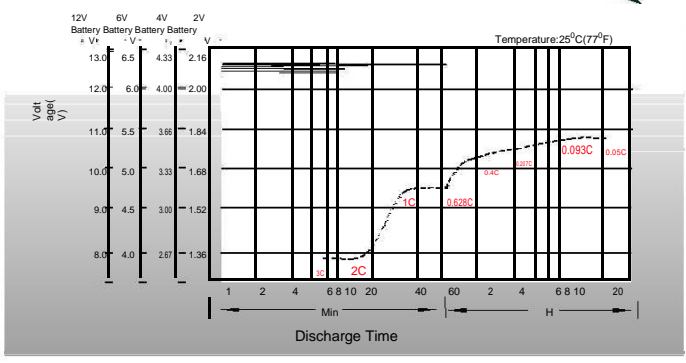
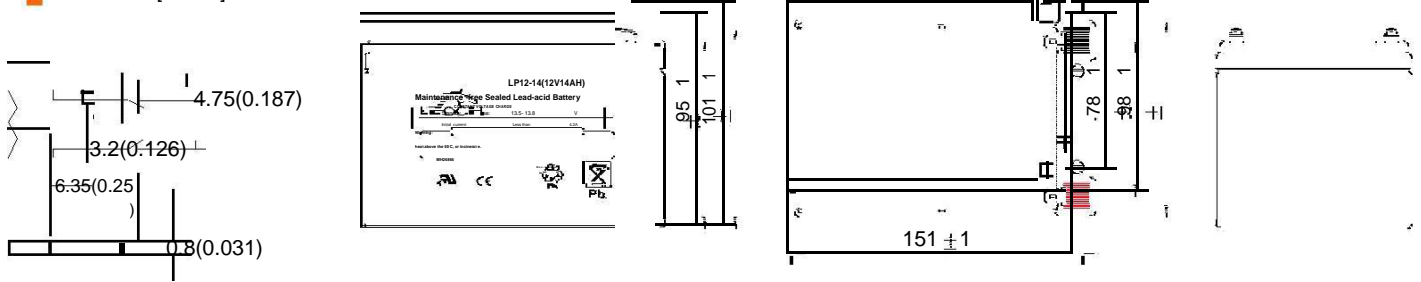
### Constant Power Discharge (Watts) at 25 °C (77 °F)

F.V/Time	5min	10min	15min	20min	30min	45min	1h	2h	3h	4h	5h	6h	8h	10h	20h
1.85V/cell	48.7	37.8	31.6	27.6	21.6	16.1	13.6	8.09	6.35	5.18	4.24	3.69	2.98	2.50	1.37
1.80V/cell	64.7	47.8	37.7	32.2	25.1	18.5	15.1	8.77	6.79	5.50	4.52	3.94	3.16	2.57	1.38
1.75V/cell	71.4	51.6	40.7	34.3	25.9	19.0	15.8	9.06	6.89	5.60	4.63	4.03	3.20	2.64	1.40
1.70V/cell	76.5	55.0	42.8	35.8	26.8	19.7	16.2	9.26	7.07	5.74	4.74	4.11	3.24	2.69	1.42
1.65V/cell	83.1	58.8	45.2	37.7	28.0	20.0	16.5	9.34	7.34	5.92	4.85	4.19	3.29	2.74	1.44
1.60V/cell	89.6	62.4	47.5	39.7	29.4	20.8	16.5	9.70	7.53	6.08	4.99	4.26	3.31	2.77	1.45

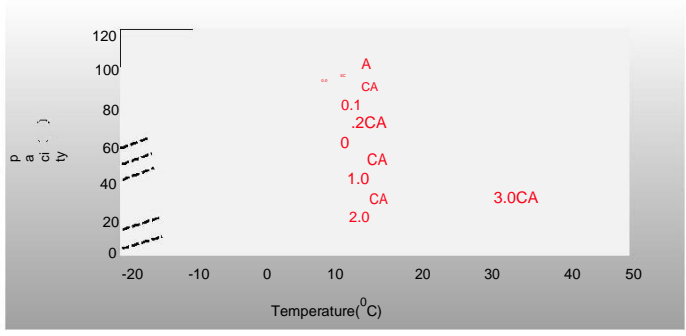


# T1 Terminal

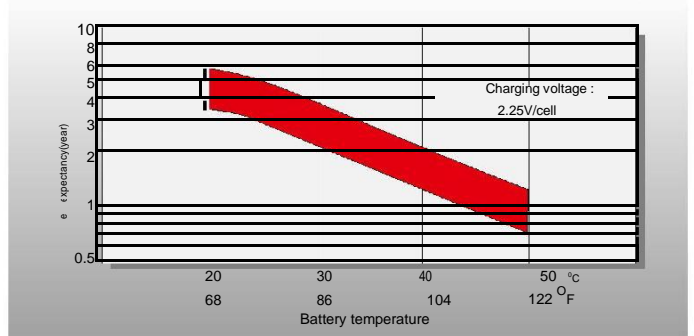
Unit: mm [inches]



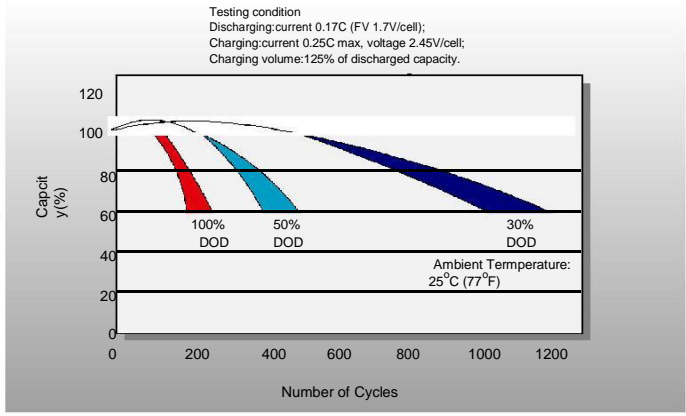
## Temperature Effects in Relation to Battery Capacity



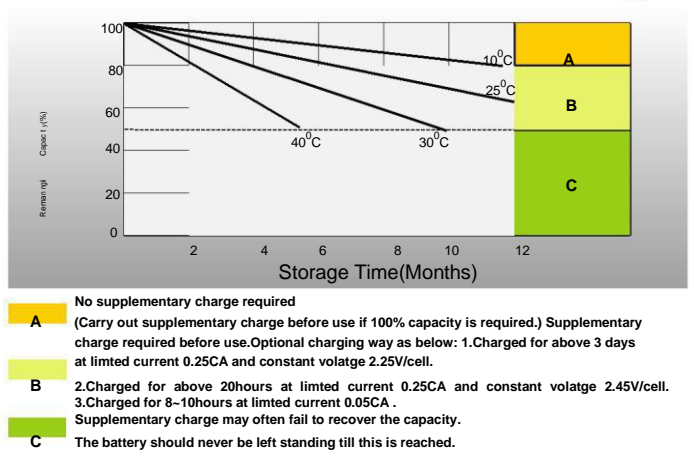
## Effect of Temperature on Long Term Float Life



## Cycle Life in Relation to Depth of Discharge



## Self Discharge Characteristics



## Sales Office

**PowerStar sales office:**  
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