

## Technical Data: LP125-12

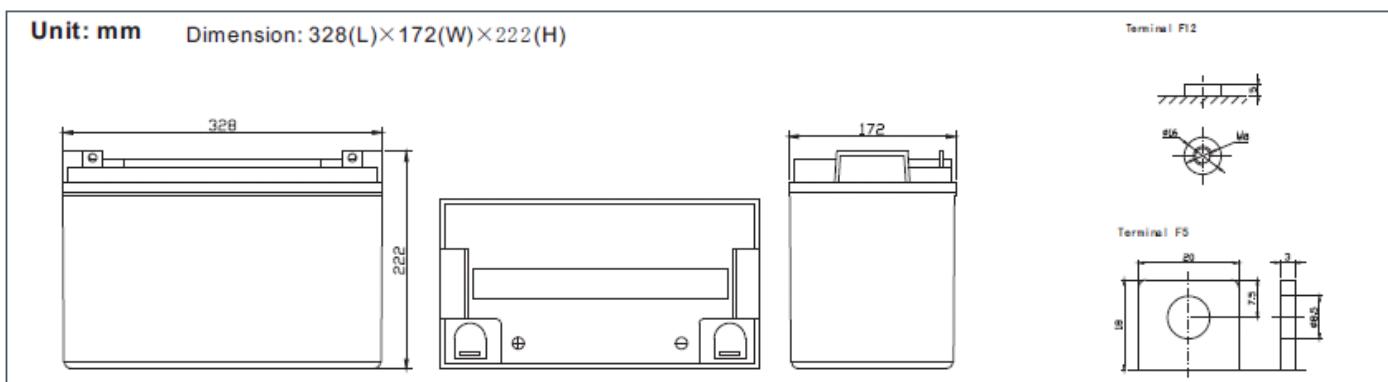


The LP125-12 is a general purpose battery with 10 years floating design life, meeting IEC, JIS, BS and Eurobat standards. With heavy duty, grid thickness plates, special additives, this series of batteries have a long life and reliable standby service life.

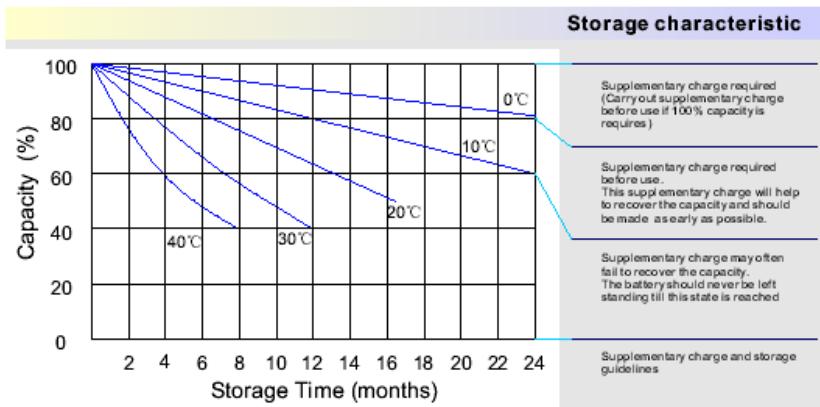
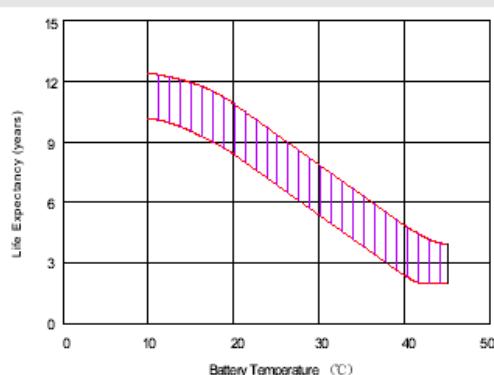
### Specification:

Cells Per unit	6
Voltage per unit	12
Capacity	125Ah@20hr-rate to 1.80V per cell @ 25°C
Weight	Approx. 30.0 Kg
Max. Discharge Current	1200A (5Sec)
Internal Resistance	Approx 4.0mΩ
Operating Temperature range	Discharge: -20°C ~ 60°C Charge: 0°C ~ 50°C Storage: -20°C ~ 60°C
Normal Operating Temp. Range	20°C ± 5°C
Float Charging Voltage	13.6 to 13.8VDC/ unit average at 25°C
Recomm. Max Charging Current	30A
Equalization and Cycle Service	14.6 to 14.8VDC/ unit average at 25°C
Self Discharge	Can be stored for more than 6 months at 25°C. Self-discharge ratio less than 3% per month at 25°C. Please charge battery before using.
Terminal	Terminal F5/F12
Container Material	A.B.S.(UL94-HB) Flammability resistance of U94-V1.

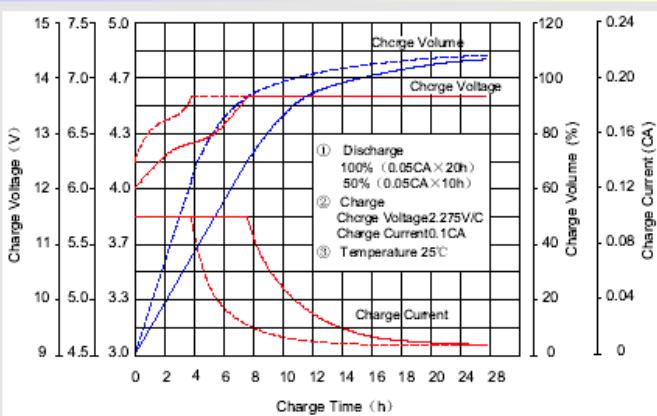
### Dimensions



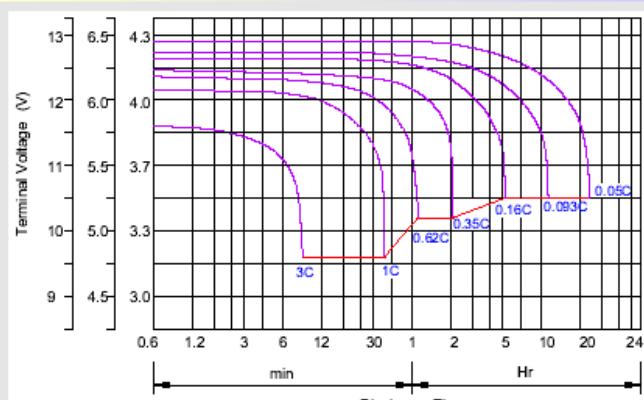
**Effect of temperature on long term float life**



**Charge characteristic Curve for standby use**



**Discharge characteristic Curve**



**Constant Current Discharge Characteristics: A (25°C)**

F.V/Time	5MIN	10MIN	15MIN	30MIN	1HR	2HR	3HR	4HR	5HR	8HR	10HR	20HR
9.60V	365.5	266.8	217.7	135.2	78.00	46.67	32.26	26.44	21.64	14.91	12.60	6.93
10.0V	355.0	253.8	213.2	133.0	77.64	46.32	32.14	26.32	21.51	14.78	12.48	6.81
10.2V	344.5	244.9	209.9	131.8	76.92	45.97	31.89	26.19	21.39	14.66	12.36	6.68
10.5V	309.3	226.0	199.8	128.5	76.20	45.62	31.77	25.95	21.13	14.54	12.24	6.55
10.8V	279.2	206.1	184.2	122.9	74.40	44.80	30.90	25.34	20.75	14.30	12.12	6.43
11.1V	238.4	184.2	165.2	115.1	70.68	42.81	29.54	24.11	19.86	13.69	11.76	6.05

**Constant Power Discharge Characteristics: W(25°C)**

F.V/Time	5MIN	10MIN	15MIN	30MIN	1HR	2HR	3HR	4HR	5HR	8HR	10HR	20HR
9.60V	3781	2841	2395	1541	901.3	550.1	383.9	315.1	258.2	178.0	150.6	83.11
10.0V	3706	2754	2356	1522	899.2	547.2	384.0	314.7	257.5	177.1	149.7	81.67
10.2V	3664	2681	2330	1512	892.2	543.9	382.3	314.1	256.6	176.0	148.3	80.16
10.5V	3336	2497	2222	1476	884.2	540.0	380.9	311.1	253.6	174.5	146.9	78.65
10.8V	3038	2302	2054	1415	867.9	533.1	370.5	304.0	249.0	171.6	145.4	77.13
11.1V	2669	2081	1849	1329	830.7	513.3	354.5	289.4	238.3	164.3	141.1	72.60

**Capacity Factors With Different Temperature**

-20°C	-10°C	0°C	5°C	10°C	20°C	25°C	30°C	40°C	45°C
50%	70%	83%	85%	90%	98%	100%	102%	104%	105%

**Discharge Current VS. Discharger Voltage**

Final Discharge Voltage V/Cell	1.75V	1.70V	1.60V
Discharge Current (A)	(A) $\leq 0.2C$	0.2C $< (A) < 1.0C$	(A) $\geq 1.0C$

Charge the batteries at least once every 6 months, if they are stored at 25°C