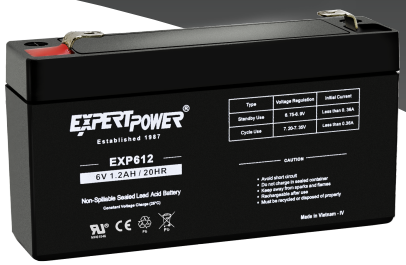
EXP612 (6V 1.2Ah)

Specification

Cells Per Unit	3
Voltage Per Unit	6
Nominal Capacity	1.2Ah@20hour-rate to 1.75V per cell @77°F
Weight	Approx. 0.64lbs (Tolerance±5.0%)
Internal Resistance	Approx. 72m Ω
Terminal	F1
Max. Discharge Current	18A (5 sec)
Design Life	6~8 years (Float charging)
Max. Charging Current	0.39A
Standby Use Voltage	6.8V~6.9V @ 77°F Temperature Compensation: -3mV/°C/Cell
Cycle Use Voltage	7.25V~7.45V @ 77°F Temperature Compensation: -4mV/°C/Cell
Operating Temperature Range	Discharge: 5°F~122°F Charge: 5°F~104°F Storage: 5°F~104°F
Normal Operating Temperature Range	77°F±41°F
Self Discharge	EXP Valve Regulated Lead Acid (VRLA) batteries can be stored for up to 6 months at 77°F, after which recharging is recommended. The monthly self-discharge ratio is less than 3% at 77°F. Please ensure that you charge the batteries before using them.
Container Material	A.B.S. UL94-HB, UL94-V0 Optional.

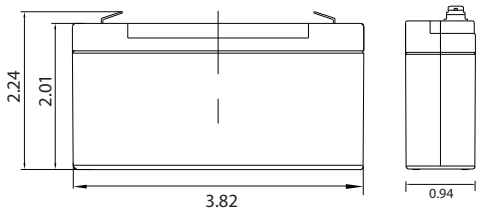


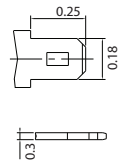
The EXP series is a general-purpose battery with a designed life of 6-8 years in float service. It meets the standards of IEC, JIS, BS, GB/T, and YD/T. With advanced AGM valve-regulated technology and high-purity raw materials, the EXP series battery maintains high consistency for better performance and reliable standby service life. It is suitable for UPS/EPS, medical equipment, emergency lighting, and security system applications.

ISO 9001 ISO 14001 OHSAS 18001

MH 61046 G4M20206-0910-E-16

Dimensions





F1 TERMINAL

Length	3.82 ± 0.06in
Width	0.94 ± 0.06in
Height	2.01 ± 0.06in
Total Height	2.24 ± 0.06in
Terminal	F1

Unit: inch

Constant Power Discharge (CP,Unit:A) at 25℃(77°F)

F.V/Time	5MIN	10MIN	15MIN	30MIN	1HR	2HR	3HR	5HR	8HR	10HR	20HR
4.80V	4.53	2.89	2 .33	1.41	0.78	0.47	0.34	0.23	0.16	0.13	0.07
5.10V	4.31	2.74	2.23	1.35	0.75	0.46	0.33	0.23	0.15	0.12	0.07
5.25V	4.18	2.66	2.18	1.32	0.73	0.46	0.33	0.22	0.15	0.12	0.06
5.40V	4.04	2.57	2.12	1.28	0.72	0.45	0.32	0.22	0.15	0.12	0.06

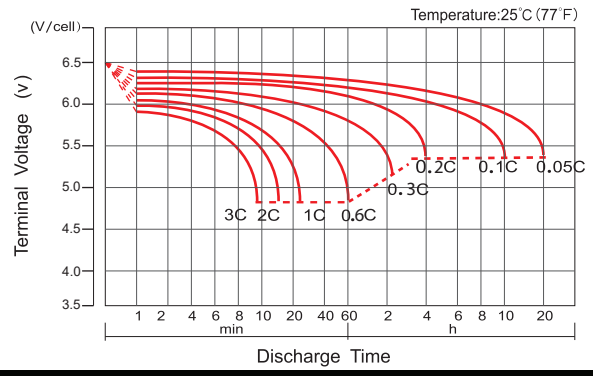
Constant Power Discharge (CP,Unit:W) at 25℃(77°F)

F.V/Time	5MIN	10MIN	15MIN	30MIN	1HR	2HR	3HR	5HR	8HR	10HR	20HR
4.80V	25.24	16.29	13.23	8.07	4.54	2.75	2.00	1.38	0.89	0.75	0.41
5.10V	24.01	15.44	12.74	7.75	4.36	2.71	1.97	1.36	0.88	0.73	0.40
5.25V	23.28	14.95	12.42	7.56	4.25	2.68	1.94	1.34	0.87	0.71	0.39
5.40V	22.54	14.46	12.10	7.36	4.14	2.65	1.92	1.32	0.87	0.70	0.38

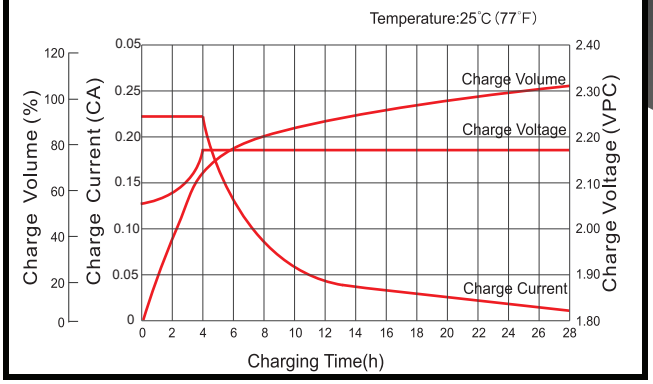
(Note) The above characteristics data are average values obtained within three charge/discharge cycle not the minimum values.
The battery must be fully charged before the capacity test. The C20 should reach 95% after the first cycle and 100% after the third cycle.

EXP612 (6V 1.2Ah)

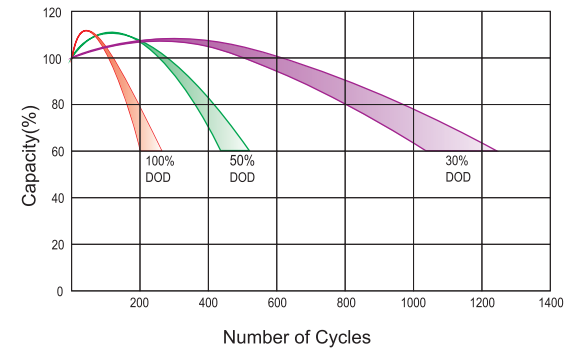
Discharge CharacteristicsCurve



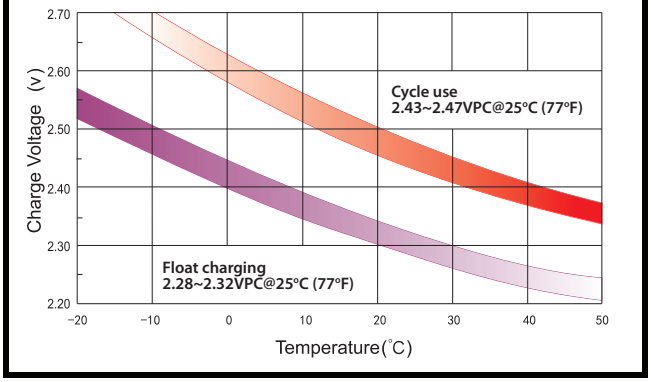
Charge Characteristic Curve For Standby Use



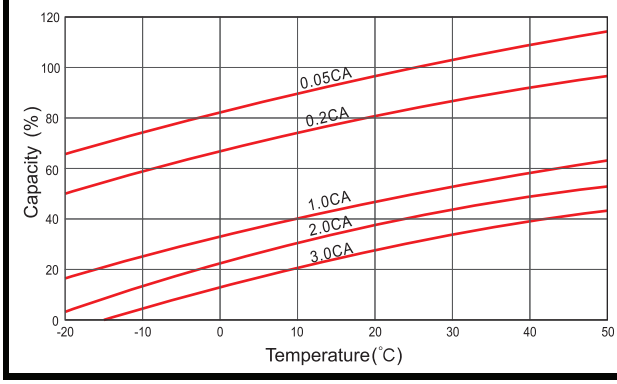
Cycle Life In Relation To Depth Of Discharge



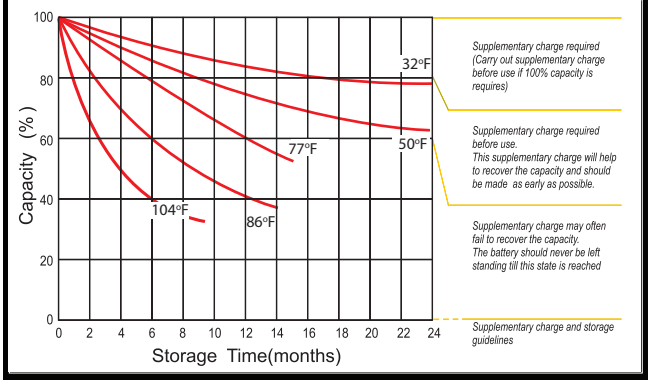
Relationship Between Charging Voltage And Temperature



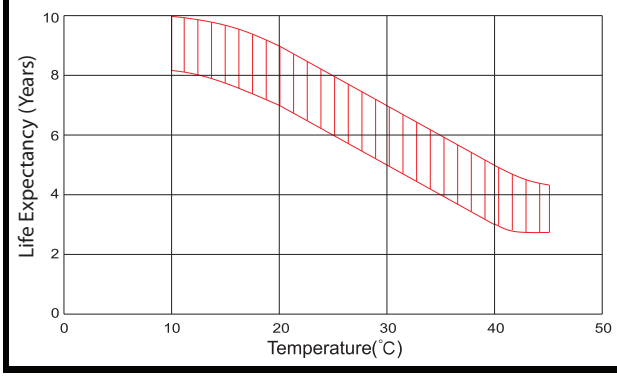
Temperature Effects On Capacity



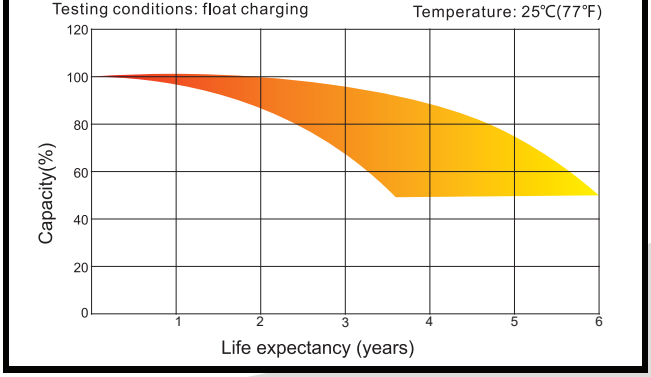
Storage Characteristics



Effect Of Temperature On Long Term Life



Life Characteristics Of Standby Use



(Note) All above information shall be changed without prior notice, ExpertPower reserves the right to explain and update the latest infomation.