

EXP12100 (12V 10Ah)

Specification

Cells Per Unit	3
Voltage Per Unit	12
Nominal Capacity	10Ah@20hour-rate to 1.75V per cell @77°F
Weight	Approx. 6.48lbs (Tolerance±5.0%)
Internal Resistance	Approx. 15m Ω
Terminal	F2
Max. Discharge Current	150A (5 sec)
Design Life	6~8 years (Float charging)
Max. Charging Current	3A
Standby Use Voltage	13.6V~13.8V @ 77°F Temperature Compensation: -3mV/°C/Cell
Cycle Use Voltage	14.5V~14.9V @ 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±5°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

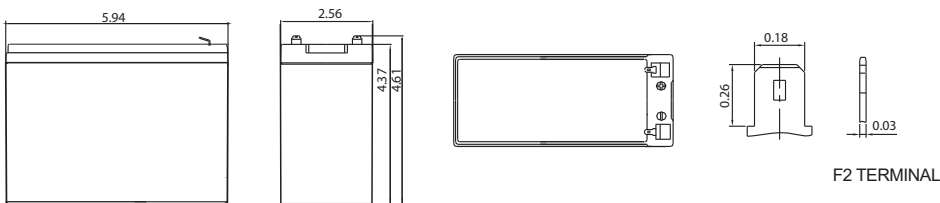


MH 61046



G4M20206-0910-E-16

Dimensions



Length	5.94 ± 0.06in
Width	2.56 ± 0.06in
Height	4.37 ± 0.06in
Total Height	4.61 ± 0.06in
Terminal	F2

Unit: inch

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

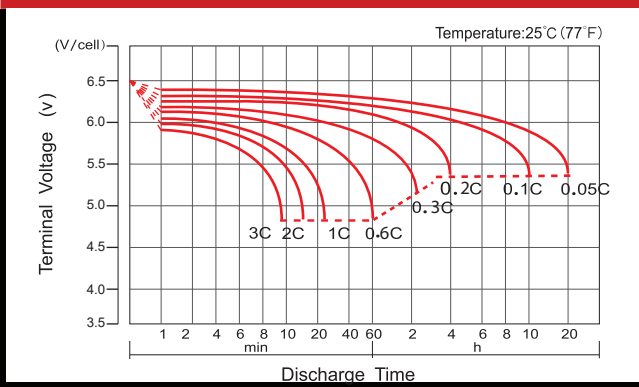
F.V/Time	5MIN	10MIN	15MIN	30MIN	1HR	2HR	3HR	5HR	8HR	10HR	20HR
9.60V	42.90	28.27	20.90	11.66	6.38	3.52	2.40	1.66	1.10	0.89	0.51
10.2V	48.81	26.62	19.91	11.22	6.13	3.47	2.37	1.64	1.09	0.89	0.50
10.5V	39.71	28.18	19.58	10.89	6.01	3.43	2.34	1.63	1.08	0.89	0.50
10.8V	38.28	25.30	19.03	10.67	5.82	3.40	2.32	1.61	1.08	0.89	0.48

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

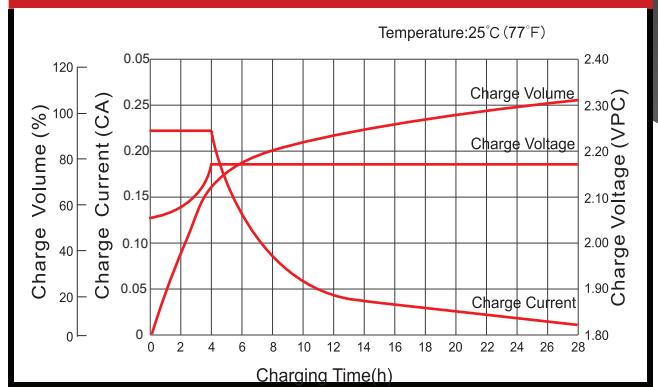
F.V/Time	5MIN	10MIN	15MIN	30MIN	1HR	2HR	3HR	5HR	8HR	10HR	20HR
9.60V	478.5	319.0	238.0	133.1	73.92	41.14	28.49	19.80	13.31	10.69	5.98
10.2V	455.4	300.3	226.6	128.7	70.95	40.59	28.05	19.58	13.09	10.64	5.96
10.5V	442.2	294.8	223.3	124.3	69.52	40.15	27.83	19.36	12.87	10.61	5.94
10.8V	426.8	284.9	216.7	122.1	67.42	39.71	27.61	19.14	12.76	10.56	5.92

EXP12100 (12V 10Ah)

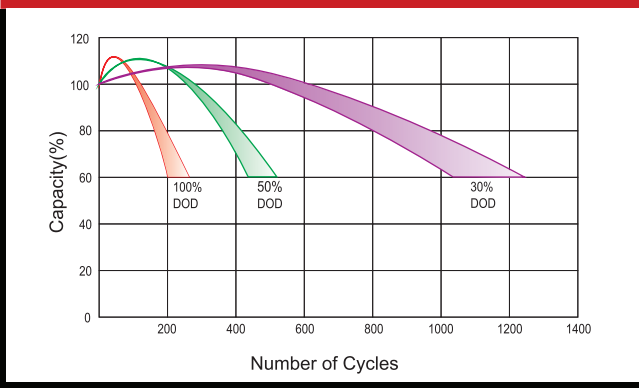
Discharge Characteristics Curve



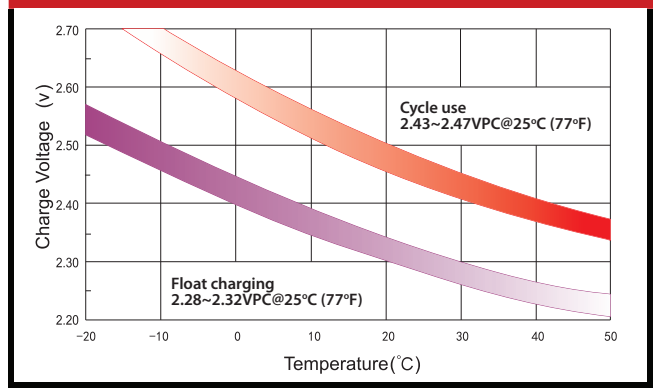
Charge Characteristic Curve For Standby Use



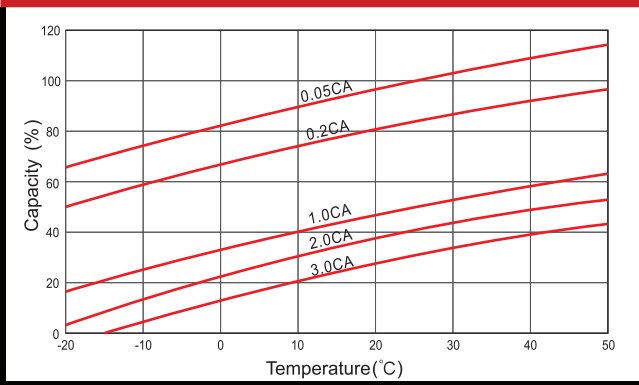
Cycle Life In Relation To Depth Of Discharge



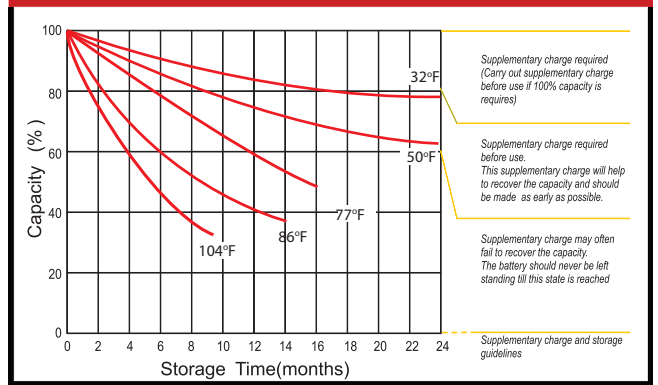
Relationship Between Charging Voltage And Temperature



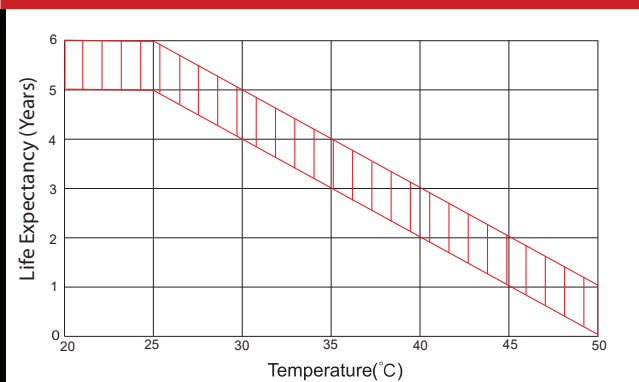
Temperature Effects On Capacity



Storage Characteristics



Effect Of Temperature On Long Term Life



Life Characteristics Of Standby Use

