

EXP33 (12V 33Ah)

Specification

Cells Per Unit	6
Voltage Per Unit	12
Nominal Capacity	33Ah@20hour-rate to 1.80V per cell @77°F
Weight	Approx. 21.6 lbs (Tolerance±3.0%)
Internal Resistance	Approx. 12 m Ω
Terminal	M6
Max. Discharge Current	330A (5 sec)
Short Circuit Current	825A
Design Life	12 years (Float charging)
Max. Charging Current	9.9 A
Reference Capacity	C3 25.5AH C5 28.8AH C10 33.0AH C20 35.0AH
Standby Use Voltage	13.6V~13.8V @ 77°F Temperature Compensation: -3mV/°C/Cell
Cycle Use Voltage	14.6 V~14.8V @ 77°F Temperature Compensation: -4mV/°C/Cell
Operating Temperature Range	Discharge: -4°F~140°F Charge: 32°F~122°F Storage: -4°F~140°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 12 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

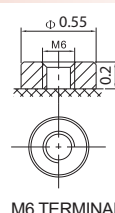
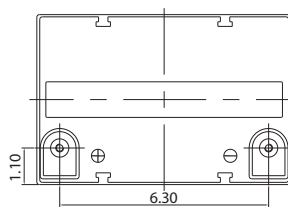
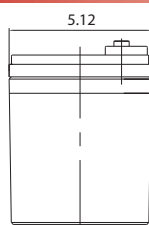
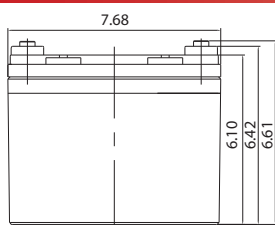


MH 61046



G4M20206-0910-E-16

Dimensions



M6 TERMINAL

Length	7.68 ± 0.06in
Width	5.12 ± 0.06in
Height	6.10 ± 0.06in
Total Height	6.61 ± 0.06in
Terminal	Value
M6	8~10 N*m

Unit: inch

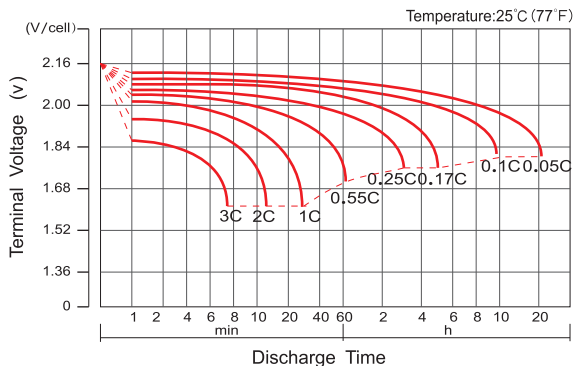
F.V/Time	5MIN	10MIN	15MIN	30MIN	1HR	2HR	3HR	4HR	5HR	8HR	10HR	20HR
1.60V	105.7	80.5	61.2	36.1	20.2	12.0	9.31	7.32	6.23	4.18	3.48	1.82
1.65V	101.9	76.1	58.5	34.7	19.5	11.6	9.02	7.12	6.06	4.14	3.44	1.79
1.70V	96.9	70.1	54.8	33.2	18.8	11.2	8.78	6.92	5.91	4.07	3.39	1.77
1.75V	90.5	64.1	51.0	31.7	18.1	10.9	8.51	6.75	5.76	4.02	3.34	1.75
1.80V	82.5	58.1	47.1	30.3	17.5	10.5	8.25	6.55	5.61	3.95	3.30	1.73
1.85V	72.6	47.4	39.1	26.1	15.7	9.59	7.63	6.09	5.23	3.71	3.11	1.64

F.V/Time	5MIN	10MIN	15MIN	30MIN	1HR	2HR	3HR	4HR	5HR	8HR	10HR	20HR
1.60V	182.0	136.9	107.0	65.6	37.9	22.8	17.8	14.0	12.0	8.17	6.84	3.59
1.65V	180.0	131.9	103.8	63.7	36.8	22.1	17.3	13.7	11.7	8.10	6.77	3.53
1.70V	173.2	123.6	98.6	61.5	35.8	21.5	16.9	13.4	11.5	7.99	6.68	3.50
1.75V	164.7	115.2	93.1	59.4	34.7	20.9	16.5	13.1	11.2	7.89	6.60	3.46
1.80V	152.7	106.1	87.2	57.3	33.6	20.2	16.0	12.8	11.0	7.78	6.52	3.43
1.85V	136.7	88.3	73.4	49.8	30.3	18.6	14.9	11.9	10.3	7.32	6.15	3.26

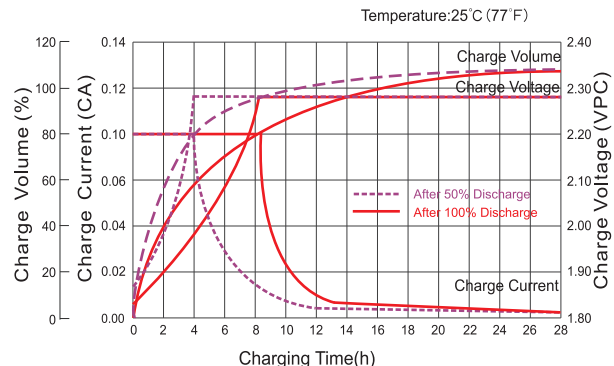
(Note) The above characteristics data are average values obtained within three charge/discharge cycle not the minimum values.
The battery must be fully charged before the capacity test. The C20 should reach 95% after the first cycle and 100% after the third cycle.

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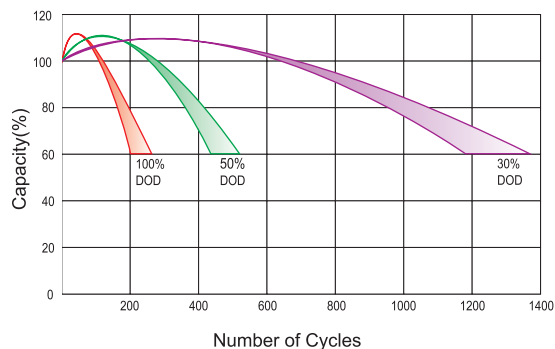
Discharge Characteristics Curve



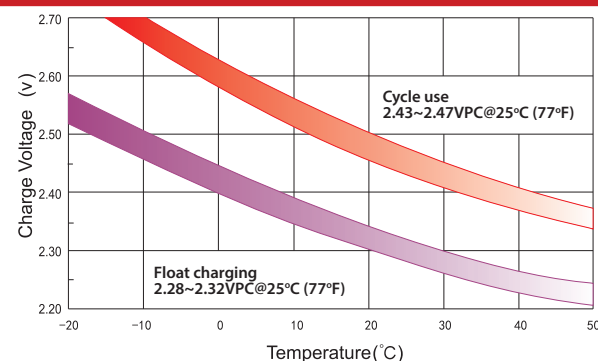
Charge Characteristic Curve For Standby Use



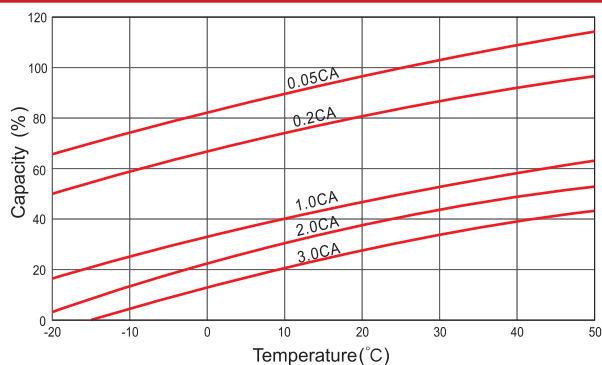
Cycle Life In Relation To Depth Of Discharge



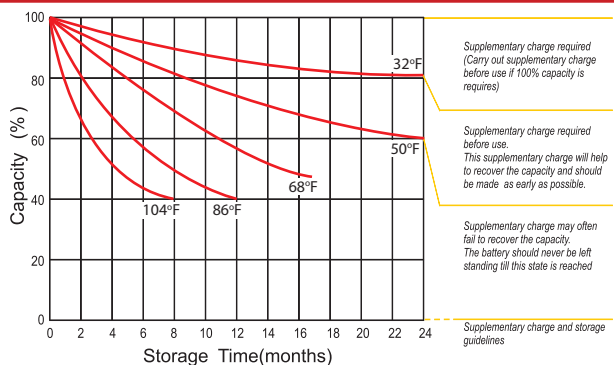
Relationship Between Charging Voltage And Temperature



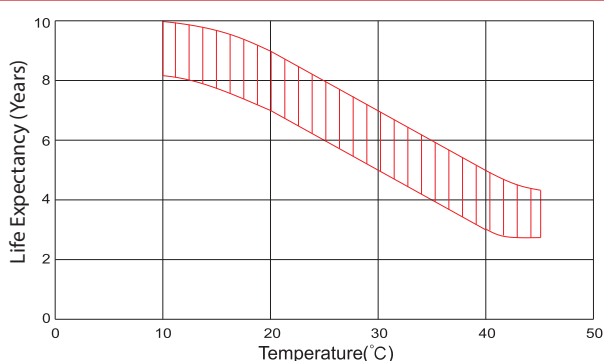
Temperature Effects On Capacity



Storage Characteristics



Effect Of Temperature On Long Term Life



Life Characteristics Of Standby Use

