



Mercury 225-6B (6V225Ah)

Mercury is GEL Standby battery with 10 + years floating design life time .The solid Gel protects no way to suffer electrolyte stratification and ensure mild corrosion, its special separator eradicates infection between plates to prevent short circuit. it offers extra-durable performance under extreme temperature.



Specification

Cells Per Unit	3
Voltage Per Unit	6
Capacity	225Ah@20hr-rate to 1.75V per cell @25°C
Weight	Approx. 32.0 Kg
Max. Discharge Current	2250 A (5 sec)
Internal Resistance	Approx. 6 mΩ
Operating Temperature Range	Discharge: -40°C~60°C Charge: -20°C~50°C Storage: -40°C~60°C
Normal Operating Temperature Range	25°C±5°C
Float charging Voltage	6.8 to 6.9 VDC/unit Average at 25°C
Recommended Maximum Charging Current Limit	45 A
Equalization and Cycle Service	7.1 to 7.2 VDC/unit Average at 25°C
Self Discharge	Mercury batteries can be stored for more than 6 months at 25°C. Self-discharge ratio less than 3% per month at 25°C. Please charge batteries before using.
Terminal	Faston F14/F16
Container Material	A.B.S. (UL94-HB), Flammability resistance of UL94-V1 can be available upon request.



MH18539



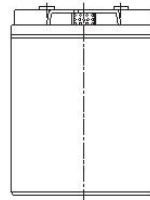
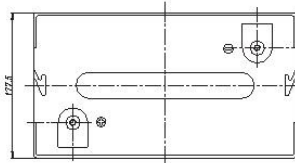
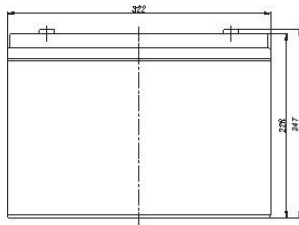
G4M20206-0910-E-16



ISO9001:2000 Certificate

Dimensions

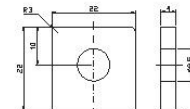
Unit: mm Dimension: 322(L)×177.5(W)×247(H)



Terminal F14



Terminal F16



Constant Current Discharge Characteristics: A (25°C)

F.V/Time	5MIN	10MIN	15MIN	30MIN	1HR	2HR	3HR	4HR	5HR	8HR	10HR	20HR
4.80V	739.17	529.68	385.40	241.93	136.74	76.553	54.908	45.441	35.764	26.412	22.332	11.810
5.00V	719.41	503.98	377.49	237.93	136.11	75.977	54.698	45.231	35.553	26.197	22.117	11.595
5.10V	677.91	486.19	371.56	235.83	134.85	75.402	54.277	45.020	35.343	25.982	21.902	11.381
5.25V	608.73	448.64	353.78	229.94	133.59	74.826	54.066	44.600	34.922	25.768	21.688	11.166
5.40V	549.44	409.11	326.11	219.84	130.43	73.483	52.594	43.548	34.291	25.338	21.473	10.951
5.55V	478.29	365.63	292.51	205.96	123.91	70.221	50.280	41.444	32.819	24.265	20.829	10.307

Constant Power Discharge Characteristics: W (25°C)

F.V/Time	5MIN	10MIN	15MIN	30MIN	1HR	2HR	3HR	4HR	5HR	8HR	10HR	20HR
4.80V	3520	2574	1895	1365	782	440	317	263	207	153	126	66.3
5.00V	3448	2458	1856	1348	778	439	316	262	206	153	124	65.7
5.10V	3255	2377	1831	1332	772	435	314	261	205	151	124	65.0
5.25V	2931	2196	1746	1302	765	431	312	259	203	150	122	64.4
5.40V	2636	1994	1604	1243	746	424	305	252	200	147	121	63.7
5.55V	2276	1771	1432	1164	707	405	290	240	190	142	117	61.2

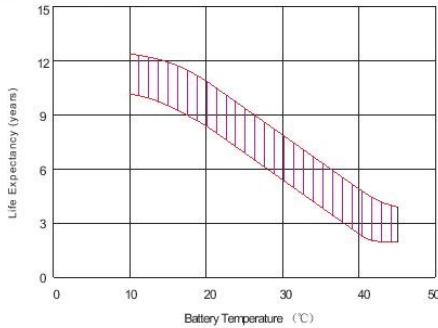
All mentioned values are average values.

Mercury 225-6B

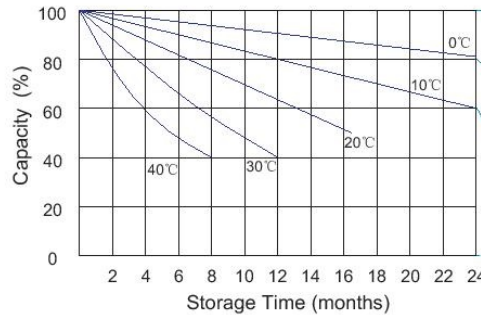
6V225Ah



Effect of temperature on long term float life



Storage characteristic



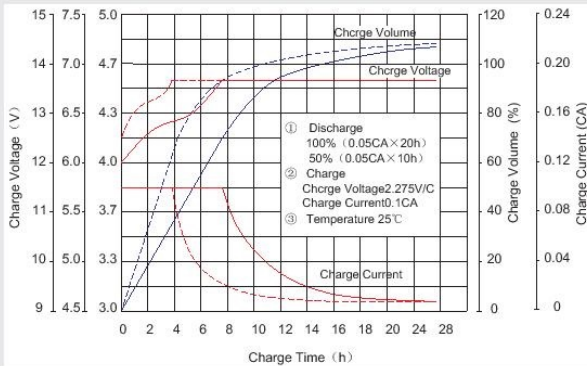
Supplementary charge required (Carry out supplementary charge before use if 100% capacity is required)

Supplementary charge required before use. This supplementary charge will help to recover the capacity and should be made as early as possible.

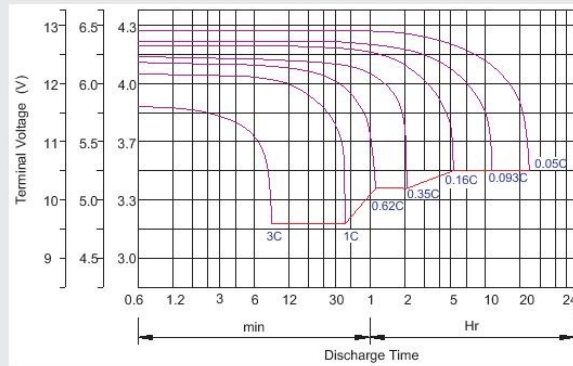
Supplementary charge may often fail to recover the capacity. The battery should never be left standing till this state is reached

Supplementary charge and storage guidelines

Charge characteristic Curve for standby use



Discharge characteristic Curve



Capacity Factors With Different Temperature

Battery Type		-20°C	-10°C	0°C	5°C	10°C	20°C	25°C	30°C	40°C	45°C
GEL Battery	6V&12V	50%	70%	83%	85%	90%	98%	100%	102%	104%	105%
	2V	60%	75%	85%	88%	92%	99%	100%	103%	105%	106%
AGM Battery	6V&12V	46%	66%	76%	83%	90%	98%	100%	103%	107%	109%
	2V	55%	70%	80%	85%	92%	99%	100%	104%	108%	110%

Discharge Current VS. Discharge Voltage

Final Discharge Voltage V/cell	1.75V	1.70V	1.60V
Discharge Current (A)	(A) ≤ 0.2C	0.2C < (A) < 1.0C	(A) ≥ 1.0C

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

Charging Method:

Constant Voltage	-0.2Cx2h+2.35-2.4V/cellx24h, Max. Current 0.2CA
Constant Current	-0.2Cx2h+0.1CAx12h
Fast	-0.2Cx2h+0.3CAx4.0h

Maintenance & Cautions

Float Service:
※ Every month, recommend inspection every battery voltage.
※ Every three months, recommend equalization charge for one time.
Equalization charge method:
Discharge: 100% rate capacity discharge.
Charge: Max. current 0.2CA, constant voltage 2.35-2.4V/Cell charge 24h.
※ Effect of temperature on float charge voltage: -3mV/°C/Cell.
※ Length of service life will be directly affected by the number of discharge cycles, depth of discharge, ambient temperature and charging voltage.