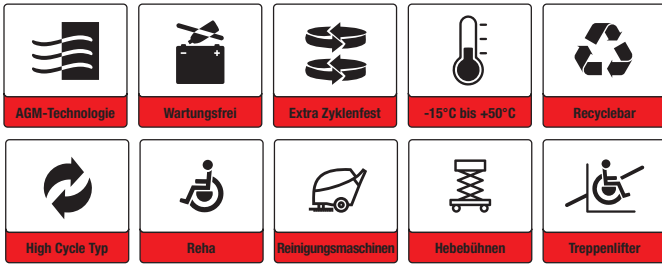


+max-

MB12-50HC(12V50Ah)



Applications

- Electric tools
- Vehicle in place of walking
- Lawn mowers
- Golf trolleys and golf cart
- Portable apparatus, lights and instruments;
- Electric toys
- Illumination light
- Fire alarms
- Portable power
- Wheelchairs
- Medical equipments

Certificates



Specifications

Nominal Voltage	12V
Nominal Capacity	49.2Ah (C_{20} , 1.60V/cell)
Approx. Weight	14.2Kg
Terminal	T6
Container Material	ABS
Rated Capacity (25°C)	49.2Ah/2.46A, 20hr, 1.60V/cell 46.0Ah/4.60A, 10hr, 1.70V/cell 34.15Ah/6.83A, 5hr, 1.70V/cell 31.2Ah/10.4A, 3hr, 1.70V/cell 24.5Ah/24.5A, 1hr, 1.60V/cell
Max. Discharge Current	450A (5s)
Internal Resistance	Approx. 9.0mΩ
Operating Temp. Range	Discharge: -15~50°C Charge: 0~40°C Storage: -15~40°C

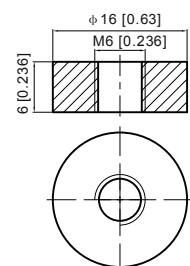
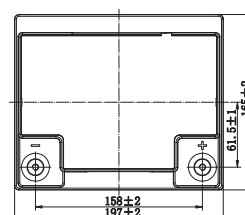
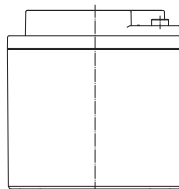
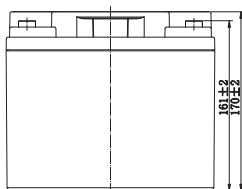
Nominal Oper. Temp. R.	25±3°C
Cycle Use	Initial Charging Current less than 13.5A. Voltage 14.4V~15.0V at 25°C. Temperature Coefficient -30mV/°C.
Standby Use	No limit on Initial Charging Current. Voltage 13.5V~13.8V at 25°C(77°F) Temp. Coefficient -20mV/°C
Capacity affected by Temp.	40°C 103% 25°C 100% 0°C 86%
Self Discharge	MB batteries may be stored for up to 6 months at 25°C and then a freshening charge is required. For higher temperatures the time interval will be shorter.



Dimensions

■ T6 Terminal

Unit: mm [inches]



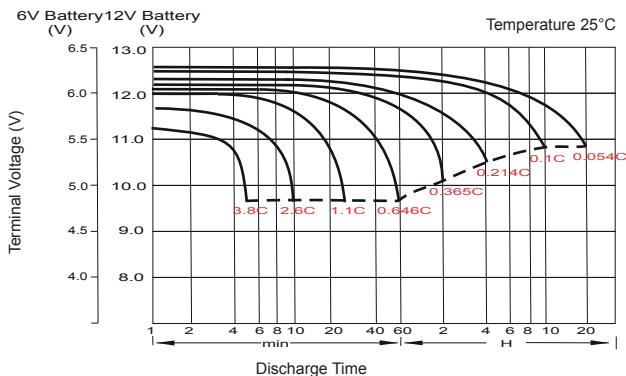
Constant Current Discharge (Amperes) at 25°C

F.V/Time	10min	15min	20min	30min	45min	1h	2h	3h	4h	5h	6h	8h	10h	20h
1.85V/cell	55.6	46.8	40.9	29.4	23.4	19.0	11.8	9.19	7.44	6.05	5.28	4.31	4.21	2.30
1.80V/cell	71.1	56.6	48.4	34.7	27.2	21.3	12.9	9.89	7.95	6.49	5.66	4.57	4.50	2.34
1.75V/cell	78.1	61.8	52.0	36.1	28.2	22.2	13.3	10.1	8.12	6.67	5.81	4.65	4.55	2.38
1.70V/cell	85.1	66.0	54.7	37.5	29.3	22.9	13.9	10.4	8.34	6.83	5.94	4.71	4.60	2.42
1.65V/cell	91.9	70.1	58.1	39.6	30.1	23.7	14.3	10.8	8.63	7.02	6.06	4.79	4.64	2.44
1.60V/cell	99.8	75.0	61.9	41.8	31.4	24.5	14.7	11.1	8.90	7.25	6.20	4.83	4.68	2.46

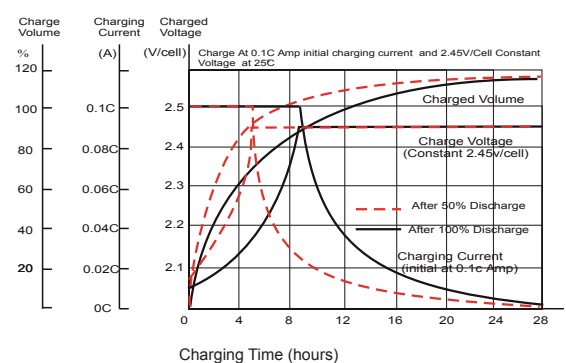
Constant Power Discharge (Watts/cell) at 25°C

F.V/Time	10min	15min	20min	30min	45min	1h	2h	3h	4h	5h	6h	8h	10h	20h
1.85V/cell	103.8	88.3	78.0	56.6	45.2	36.8	23.0	18.0	14.6	11.9	10.42	8.52	8.38	4.60
1.80V/cell	130.9	105.1	90.8	65.9	52.2	41.0	24.9	19.2	15.5	12.7	11.14	9.02	8.86	4.68
1.75V/cell	142.0	113.6	96.8	68.1	53.9	42.7	25.8	19.5	15.8	13.0	11.43	9.17	9.01	4.76
1.70V/cell	152.6	120.4	101.2	70.6	55.9	44.0	26.7	20.0	16.2	13.3	11.65	9.29	9.11	4.84
1.65V/cell	163.6	127.2	107.0	74.2	57.1	45.3	27.4	20.8	16.7	13.7	11.89	9.43	9.22	4.88
1.60V/cell	174.6	134.4	112.8	77.5	58.9	46.5	28.1	21.4	17.2	14.1	12.12	9.51	9.34	4.92

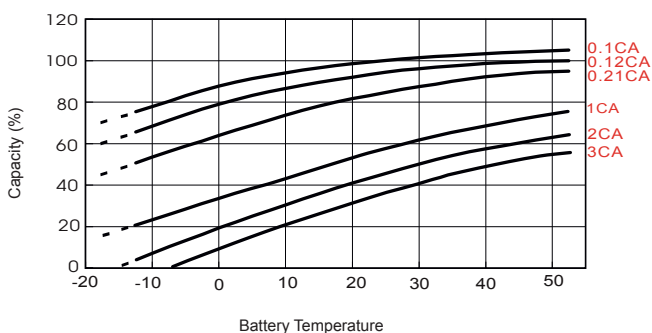
Discharge Characteristics



Float Charging Characteristics



Temperature Effects in Relation to Battery Capacity



Cycle Life in Relation to Depth of Discharge

