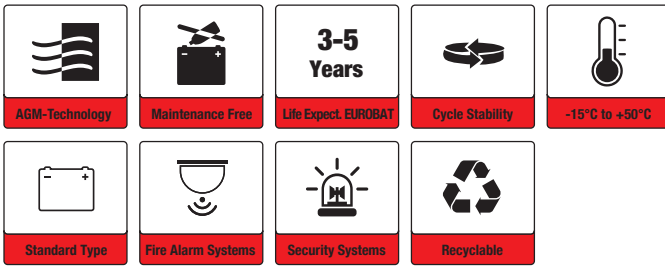


+max-

MB6-4.5(6V4.5Ah)



Applications

- All purpose
- Uninterruptable Power Supply (UPS)
- Electric Power System (EPS)
- Emergency backup power supply
- Alarm and security system
- Communication power supply
- DC power supply
- Auto control system

Certificates



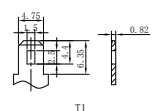
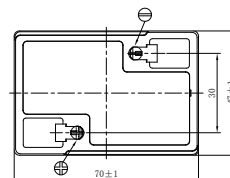
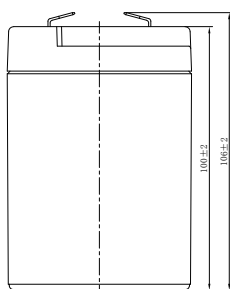
Specifications

Nominal Voltage	6V	Nominal Oper. Temp. R.	25±3°C
Nominal Capacity	4.5Ah (C ₂₀ 1.75V/cell)	Cycle Use	Max. Charging Current 0.3C. Voltage 2.35~2.45V/cell at 25°C. Temperature Coefficient -5mV/cell/°C.
Approx. Weight	0.72Kg	Standby Use	Max. Charging Current 0.3C. Voltage 2.25~2.30V/cell at 25°C. Temperature Coefficient -3mV/cell/°C
Terminal	T1	Capacity affected by Temp.	40°C 103% 25°C 100% 0°C 86%
Container Material	ABS UL94 HB	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.
Rated Capacity (25°C)	4.50Ah/A, 0.225A, 20hr, 1.75V/cell 4.19Ah/0.419A, 10hr, 1.75V/cell 3.825Ah/0.765A, 5hr, 1.75V/cell 3.39Ah/1.13A, 3hr, 1.75V/cell 2.66Ah/2.66A, 1hr, 1.60V/cell	Life expectancy	3-5 years according to EUROBAT
Short-circuit Current	126A		
Internal Resistance	Approx. 22mΩ		
Operating Temp. Range	Discharge: -15~50°C Charge: -20~40°C Storage: -15~40°C		

Dimensions

■ T1 Terminal

Unit: mm | Dimensions: 70±1 Length X 47±1 Width X 100±2 Height (106±1 Height incl. Terminal)



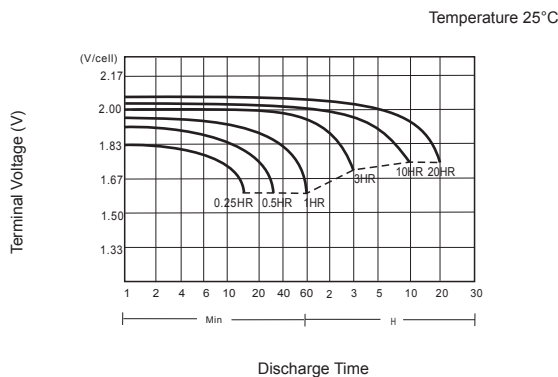
Constant Current Discharge (Amperes) at 25°C

F.V/Time	5min	10min	15min	20min	30min	45min	1h	2h	3h	4h	5h	6h	8h	10h	20h
1.85V/cell	11.3	8.26	6.55	5.35	4.07	2.99	2.44	1.53	1.09	0.876	0.744	0.637	0.500	0.409	0.220
1.80V/cell	12.2	8.64	6.81	5.51	4.17	3.04	2.48	1.56	1.11	0.888	0.755	0.645	0.507	0.413	0.222
1.75V/cell	13.1	9.10	7.06	5.68	4.27	3.11	2.53	1.58	1.13	0.900	0.765	0.653	0.513	0.419	0.225
1.70V/cell	14.1	9.50	7.31	5.84	4.37	3.16	2.57	1.61	1.14	0.910	0.775	0.662	0.519	0.424	0.227
1.67V/cell	14.8	9.80	7.46	5.95	4.43	3.20	2.60	1.62	1.15	0.920	0.780	0.667	0.523	0.427	0.229
1.60V/cell	16.0	10.4	7.80	6.17	4.56	3.29	2.66	1.66	1.17	0.940	0.795	0.679	0.532	0.433	0.231

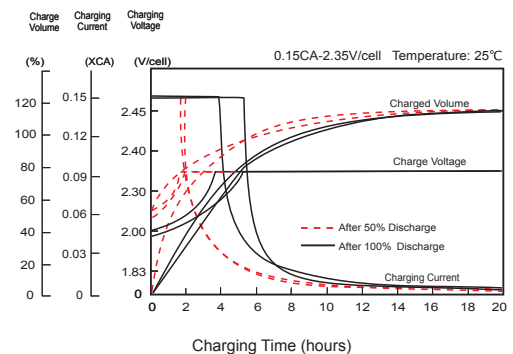
Constant Power Discharge (Watts/cell) at 25°C

F.V/Time	5min	10min	15min	20min	30min	45min	1h	2h	3h	4h	5h	6h	8h	10h	20h
1.85V/cell	21.3	15.8	12.6	10.3	7.86	5.79	4.74	3.01	2.15	1.73	1.47	1.26	0.990	0.812	0.489
1.80V/cell	23.0	16.5	13.1	10.5	8.02	5.89	4.82	3.04	2.18	1.75	1.49	1.28	1.01	0.821	0.494
1.75V/cell	24.7	17.2	13.4	10.8	8.18	5.98	4.89	3.09	2.21	1.76	1.50	1.29	1.02	0.831	0.499
1.70V/cell	26.4	17.9	13.9	11.1	8.33	6.07	4.96	3.12	2.23	1.79	1.52	1.31	1.03	0.840	0.504
1.67V/cell	27.4	18.4	14.0	11.3	8.46	6.13	5.00	3.15	2.25	1.80	1.53	1.31	1.04	0.845	0.507
1.60V/cell	29.5	19.3	14.6	11.6	8.64	6.26	5.09	3.20	2.29	1.83	1.56	1.33	1.05	0.858	0.515

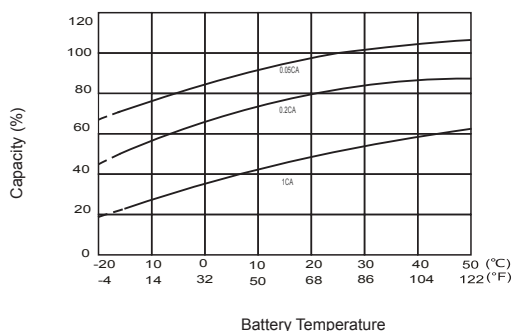
Discharge Characteristics



Float Charging Characteristics



Temperature Effects in Relation to Battery Capacity



Effect of Temperature on Long Term Float Life

