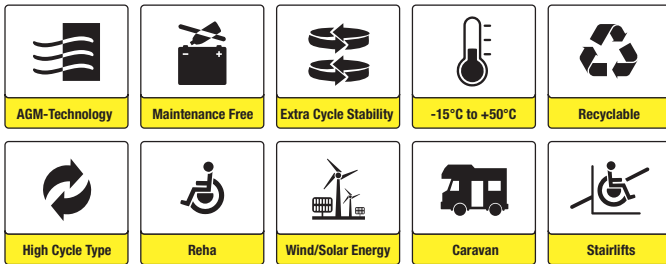




⊕⊖ **sunbattery**®

HC12-75 M6 (12V75Ah)



Applications

- Electric tools
- Vehicle in place of walking
- Lawn mowers
- Golf trolleys
- Portable apparatus, lights and instruments
- Electric toys
- Portable power
- Wheelchairs
- Medical equipments
- Wind/Solar energy
- Electric boats
- Caravan



Certificates



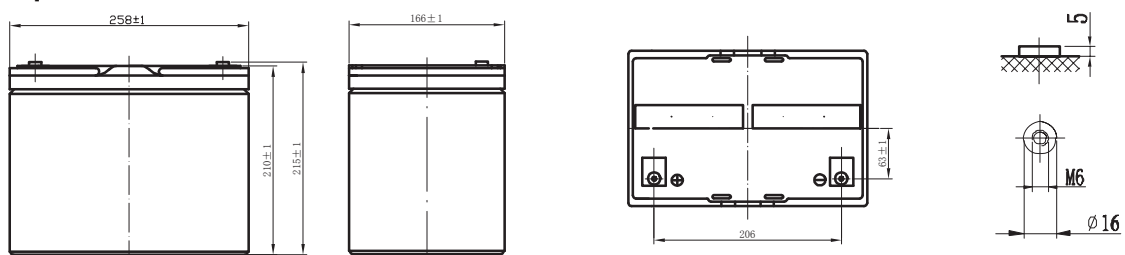
Specifications

Nominal Voltage	12V	Nominal Oper. Temp. R.	25±3°C
Nominal Capacity	75Ah (C ₂₀ , 1.80V/cell)	Cycle Use	Initial Charging Current less than 22.5A. Voltage 14.4V~14.7V at 25°C. Temperature Coefficient -30mV/°C.
Approx. Weight	24.0kg	Standby Use	Initial Charging Current less than 22.5A. Voltage 13.5V~13.8V at 25°C Temp. Coefficient -20mV/°C
Terminal	M6	Capacity affected by Temp.	40°C 103% 25°C 100% 0°C 86%
Container Material	ABS UL94 HB (Optional: V0)	Self Discharge	HC 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)	75.0Ah/3.75A, 20hr, 1.80V/cell 74.1Ah/7.41A, 10hr, 1.80V/cell 67.0Ah/13.4A, 5hr, 1.75V/cell 64.8Ah/21.6A, 3hr, 1.60V/cell 49.5Ah/49.5A, 1hr, 1.60V/cell	Cycle Life	Approx. 650 Cycles at 50% DOD
Max. Discharge Current	700A (5s)		
Internal Resistance	Approx. 6.6mΩ		
Operating Temp. Range	Discharge: -15~50°C Charge: 0-40°C Storage: -15~40°C		

Dimensions

■ M6 Terminal

Unit: mm [inches]





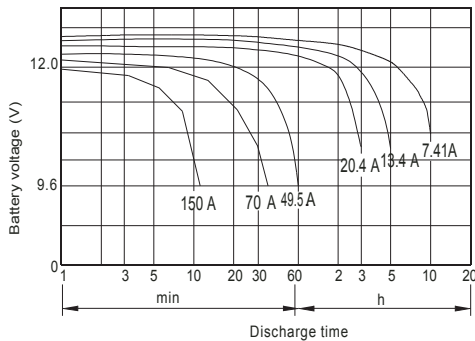
Constant Current Discharge (Amperes) at 25°C

End Point	10min	15min	30min	1h	3h	5h	10h	20h
1.60V/cell	171	133	79.8	49.5	21.6	14.2	7.54	3.94
1.65V/cell	162	127	76.3	46.8	21.2	14.0	7.51	3.90
1.70V/cell	152	118	75.1	46.2	20.8	13.8	7.48	3.85
1.75V/cell	145	114	71.8	44.6	20.4	13.4	7.45	3.80
1.80V/cell	133	109	71.3	42.8	19.6	13.2	7.41	3.75

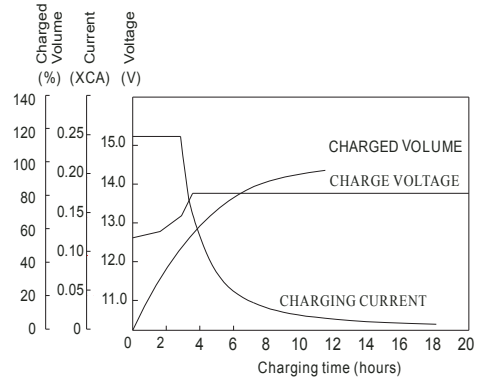
Constant Power Discharge (Watts/cell) at 25°C

End Point	10min	15min	30min	45min	1h	2h	3h	5h
1.60V/cell	301	239	154	118	94.3	53.4	39.8	26.7
1.65V/cell	288	234	149	116	92.2	52.1	38.8	26.5
1.70V/cell	278	230	141	109	88.5	50.9	38.5	25.9
1.75V/cell	263	216	139	109	85.2	49.7	37.9	25.9
1.80V/cell	251	206	138	104	82.9	49.0	37.6	25.7

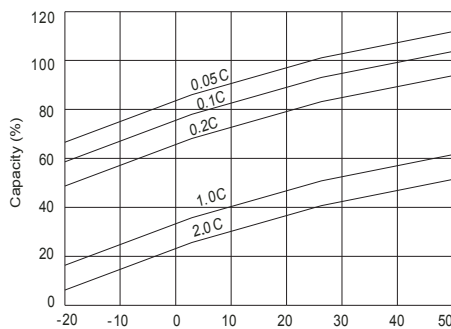
Discharge Characteristics (25°C)



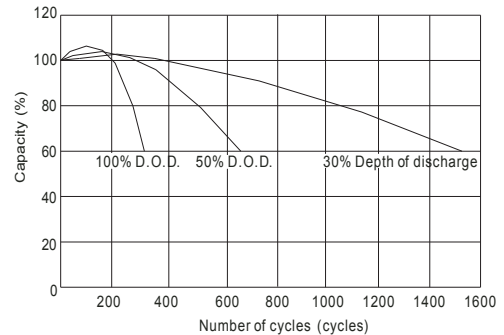
Float Charging Characteristics (25°C)



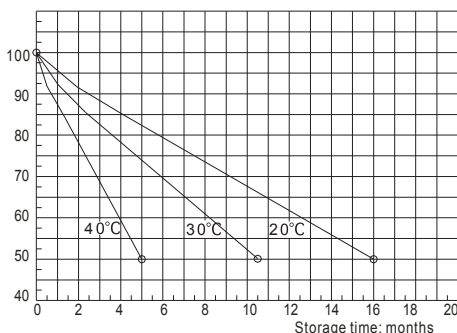
Temperature Effects in Relation to Battery Capacity



Cycle Service Life in Relation to Depth of Discharge



Self Discharge Characteristics



Temperature Effects on Float Life

