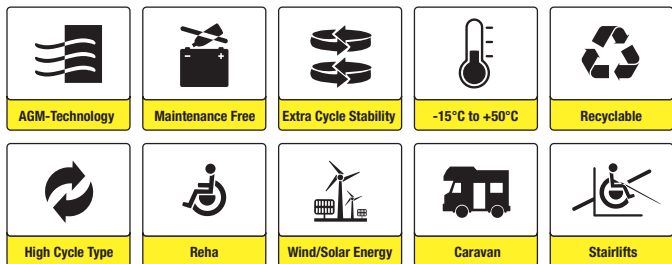




⊕⊖ **sunbattery®**

HC12-22 M5 (12V22Ah)



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



Conform to
IEC60896-21&22

Specifications

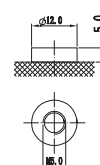
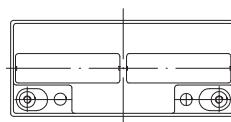
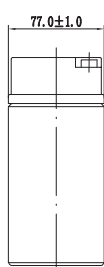
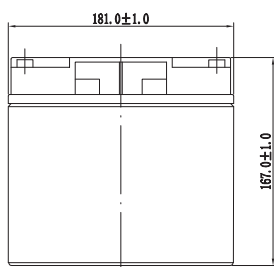
Nominal Voltage	12V
Nominal Capacity	22Ah (C ₂₀ , 1.75V/cell)
Approx. Weight	5.9kg
Terminal	M5
Container Material	ABS UL94 HB
Rated Capacity (25°C)	22.00Ah/1.10A, 20hr, 1.75V/cell 21.00Ah/2.10A, 10hr, 1.75V/cell 18.70Ah/3.74A, 5hr, 1.75V/cell 16.83Ah, 5.61A, 3hr, 1.60V/cell 13.2Ah/13.2A, 1hr, 1.60V/cell
Max. Discharge Current	225A (5s)
Internal Resistance	Approx. 15mΩ
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 3.6A. Voltage 14.55V ±1% at 25°C. Temperature Coefficient -30mV/°C.
Standby Use	Initial Charging Current less than 3.6A. Voltage 13.65V ±1% at 25°C Temp. Coefficient -20mV/°C
Capacity affected by Temp.	40°C 103% 25°C 100% 0°C 86%
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.
Cycle Life	Approx. 450 cycles at 50% DOD

Dimensions

■ M5 Terminal

Unit: mm | Dimensions: 181 Length X 77 Width X 167 Height (167 Height incl. Terminal)





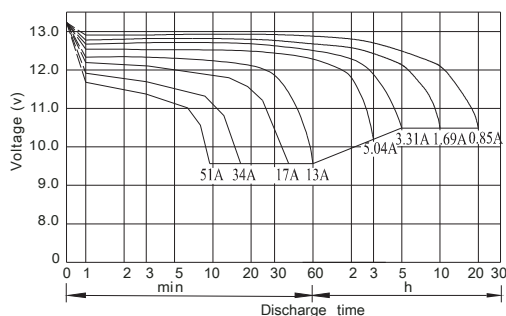
Constant Current Discharge (Amperes) at 25°C

End Point	5min	10min	15min	30min	1h	3h	5h	10h	20h
1.60V/cell	105	65.6	46.5	24.5	13.2	5.61	3.81	2.25	1.17
1.65V/cell	102	64.4	45.9	24.2	13.1	5.57	3.80	2.24	1.15
1.70V/cell	96.5	62.8	45.2	23.7	13.0	5.54	3.76	2.20	1.14
1.75V/cell	89.4	60.3	43.8	23.0	12.9	5.49	3.74	2.10	1.10
1.80V/cell	82.7	57.0	41.9	21.7	12.6	5.45	3.73	2.18	1.09

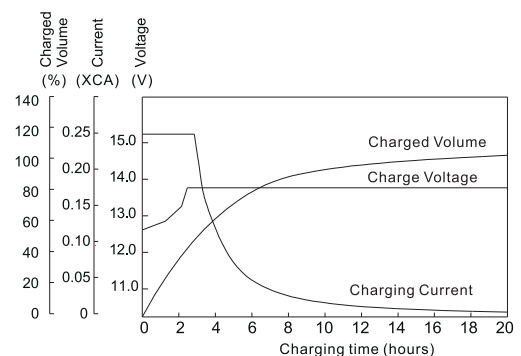
Constant Power Discharge (Watts/cell) at 25°C

End Point	5min	10min	15min	30min	1h	3h	5h	10h	20h
1.60V/cell	194.50	125.00	91.17	48.83	26.50	11.27	7.72	4.52	2.37
1.65V/cell	192.33	120.67	90.00	48.17	26.33	11.20	7.65	4.50	2.37
1.70V/cell	188.00	120.83	88.33	47.17	26.17	11.08	7.58	4.67	2.33
1.75V/cell	181.17	116.33	85.51	45.5	26.01	10.90	7.53	4.43	2.27
1.80V/cell	169.67	109.00	80.33	43.00	25.67	10.75	7.45	4.40	2.23

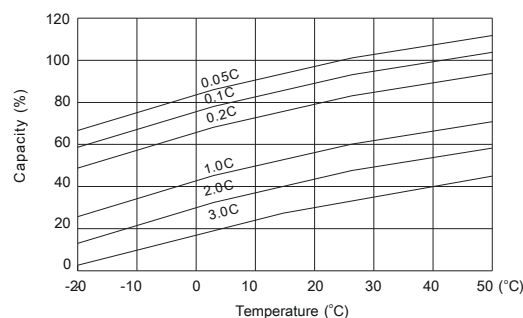
Discharge Characteristics



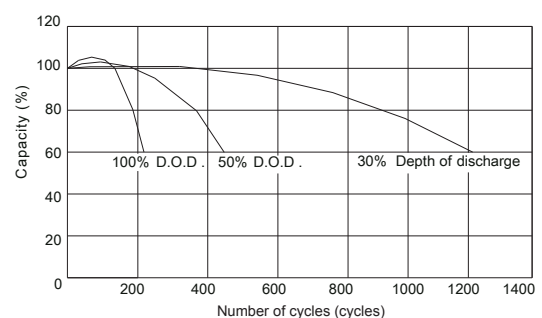
Float Charging Characteristics



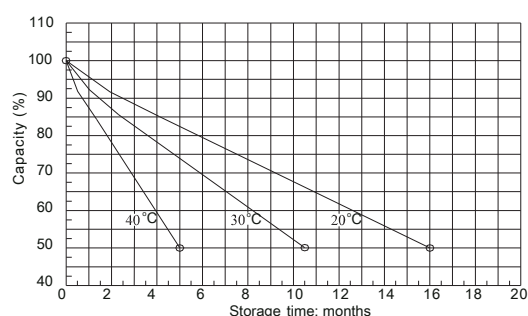
Temperature Effects in Relation to Battery Capacity



Cycle Service Life in Relation to Depth of Discharge



Self Discharge Characteristics



Temperature Effects on Float Life

