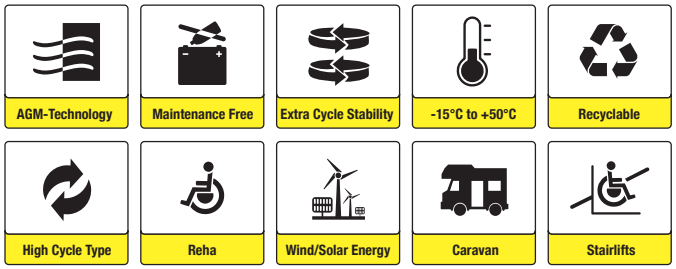
sunbattery®

HC12-150 M8 (12V150Ah)



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

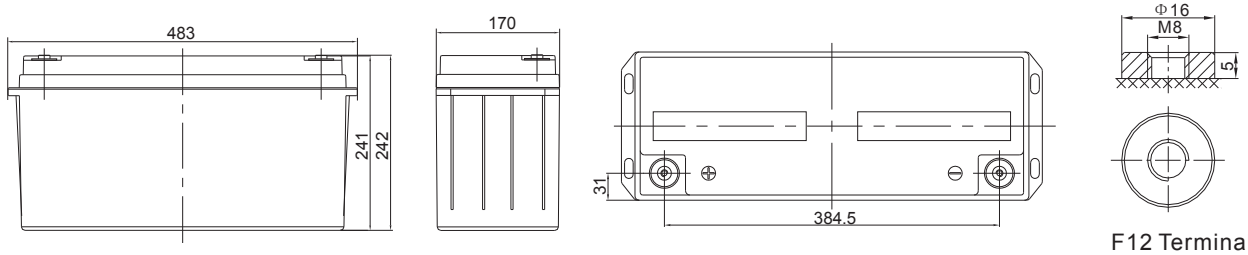
Nominal Voltage	12V	
Nominal Capacity	150 Ah / 7.50 A, 20 hr, 1.75 V/cell	
	131 Ah / 26.2 A, 5 hr, 1.75 V/cell	
Approx. Weight	44.5kg (±5%)	
Terminal	M8	
Container Material	ABS UL94 HB	
Max. Discharge Current	1500A (5s)	
Internal Resistance	Approx. 4.4mΩ	
Operating Temp. Range	Discharge:	-15~50°C
	Charge:	-10-50°C
	Storage:	-20~50°C

Nominal Oper. Temp. R.	25±3°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. The self discharge is less than 3% per month at 25°C.	
Cycle Life	Approx. 700 cycles at 50% DOD	

Dimensions

- **M8 Terminal**

  Unit: mm | Dimensions: 483±2 Length X 170±2 Width X 241±2 Height (242±2 Height incl. Terminal)



F12 Terminal

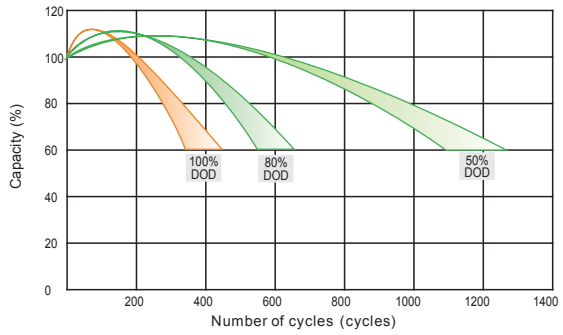
Constant Current Discharge (Amperes) at 25°C

F.V/Time	10min	15min	30min	1h	2h	3h	4h	5h	8h	10h	20h
1.60V/cell	342.7	272.1	165.9	91.6	54.4	42.3	33.2	28.3	18.6	15.0	7.81
1.65V/cell	323.8	260.2	159.2	88.5	52.6	41.0	32.3	27.6	18.4	14.8	7.69
1.70V/cell	298.1	243.7	152.2	85.6	50.9	39.9	31.5	26.8	18.1	14.6	7.59
1.75V/cell	272.9	226.8	145.5	82.5	49.1	38.7	30.7	26.2	17.9	14.4	7.50
1.80V/cell	247.0	209.4	139.0	79.3	47.4	37.5	29.8	25.5	17.6	14.3	7.43
1.85V/cell	201.9	173.7	119.8	71.2	43.4	34.7	27.7	23.8	16.5	13.4	7.05

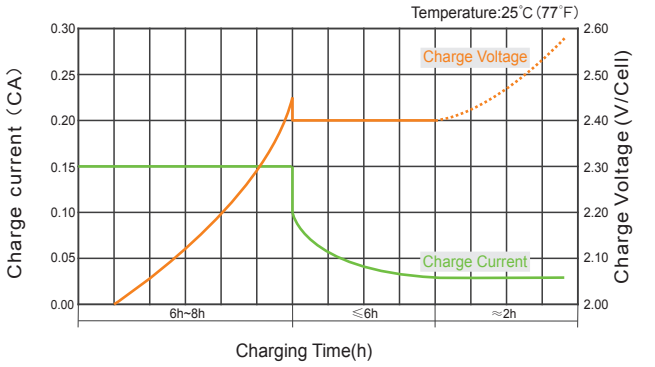
Constant Power Discharge (Watts/cell) at 25°C

F.V/Time	10min	15min	30min	1h	2h	3h	4h	5h	8h	10h	20h
1.60V/cell	582.5	475.7	301.3	172.2	103.0	80.8	63.8	54.5	36.3	29.6	15.4
1.65V/cell	561.0	461.6	292.3	167.3	100.2	78.6	62.3	53.3	36.0	29.2	15.2
1.70V/cell	526.0	438.8	282.2	162.8	97.4	76.8	60.9	52.1	35.5	28.8	15.0
1.75V/cell	490.1	414.2	272.5	157.8	94.5	74.9	59.5	51.0	35.1	28.5	14.8
1.80V/cell	451.4	387.9	263.1	152.7	91.6	72.8	58.0	49.8	34.6	28.2	14.7
1.85V/cell	375.5	326.5	228.8	137.8	84.3	67.6	54.1	46.6	32.5	26.5	14.0

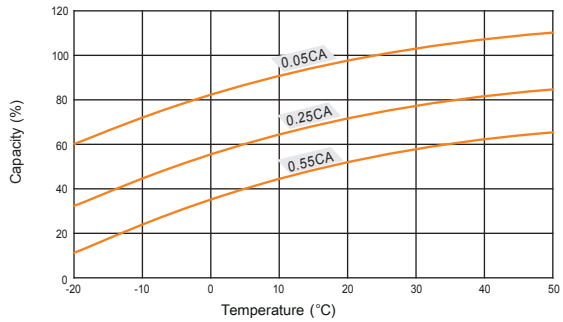
Cycle Service Life in Relation to Depth of Discharge



Charging Characteristics (25°C)



Temperature Effects in Relation to Battery Capacity



Self Discharge Characteristics

