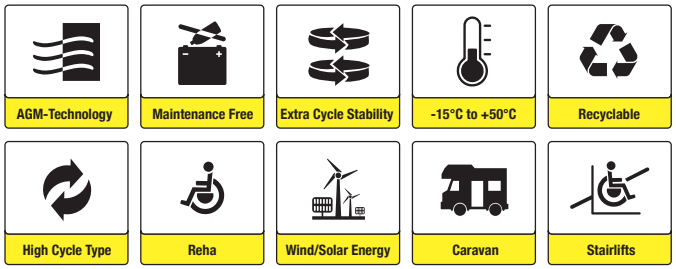
sunbattery®

HC12-160 M8 (12V160Ah)





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

CE Conform to IEC60896-21&22

Specifications

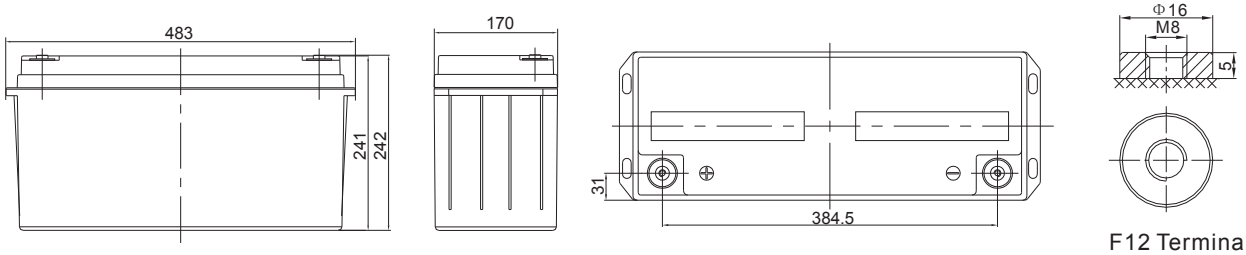
Nominal Voltage	12V	
Nominal Capacity	160 Ah / 8.0 A, 20 hr, 1.75 V/cell	
	138.65 Ah / 27.73 A, 5 hr, 1.75 V/cell	
Approx. Weight	44.5kg (±5%)	
Terminal	M8	
Container Material	ABS UL94 HB	
Max. Discharge Current	1500A (5s)	
Internal Resistance	Approx. 4.4mΩ	
Operating Temp. Range	Discharge:	-15~50°C
	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)



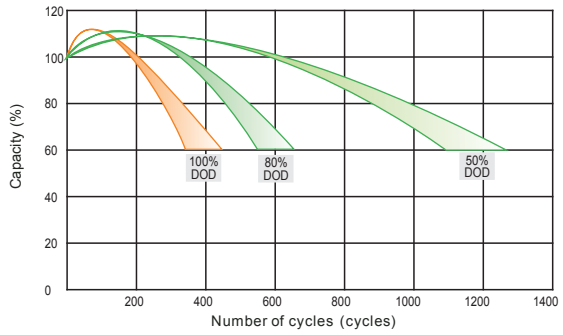
Constant Current Discharge (Amperes) at 25°C

F.V/Time	10min	15min	30min	1h	2h	3h	4h	5h	8h	10h	20h
1.60V/cell	351.40	280.33	172.02	95.33	57.03	44.69	35.16	30.08	19.83	16.00	8.33
1.65V/cell	331.57	267.72	164.83	91.98	55.06	43.24	34.15	29.29	19.60	15.77	8.20
1.70V/cell	304.68	250.30	157.35	88.86	53.20	42.02	33.26	28.40	19.26	15.55	8.10
1.75V/cell	278.42	232.52	150.20	85.53	51.24	40.70	32.38	27.73	19.04	15.32	8.00
1.80V/cell	251.52	214.27	143.29	82.09	49.40	39.38	31.38	26.95	18.70	15.21	7.92

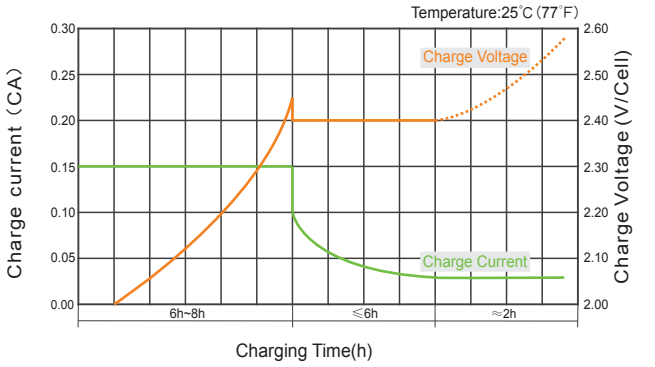
Constant Power Discharge (Watts/cell) at 25°C

F.V/Time	10min	15min	30min	1h	2h	3h	4h	5h	8h	10h	20h
1.60V/cell	597.29	490.08	312.41	179.21	107.98	85.36	67.57	57.93	38.70	31.57	16.43
1.65V/cell	574.46	474.95	302.64	173.88	104.89	82.90	65.88	56.57	38.36	31.12	16.21
1.70V/cell	537.62	450.68	291.75	168.99	101.81	80.89	64.31	55.20	37.79	30.67	16.00
1.75V/cell	500.01	424.64	281.31	163.59	98.62	78.77	62.75	53.97	37.33	30.32	15.79
1.80V/cell	459.66	396.93	271.23	158.08	95.46	76.44	61.07	52.62	36.77	29.99	15.67

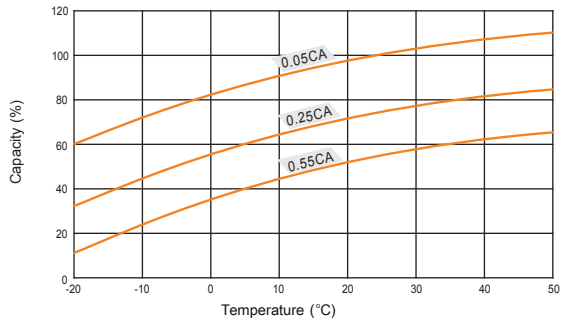
Cycle Service Life in Relation to Depth of Discharge



Charging Characteristics (25°C)



Temperature Effects in Relation to Battery Capacity



Self Discharge Characteristics

