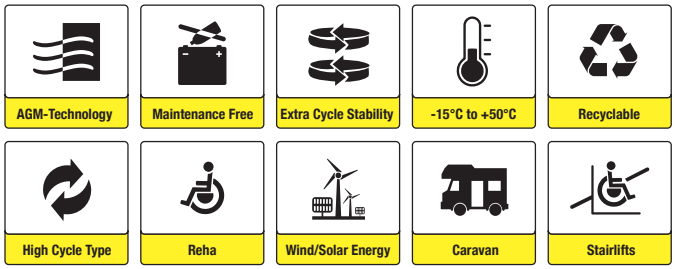
sunbattery®

HC12-200 M8 (12V200Ah)



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

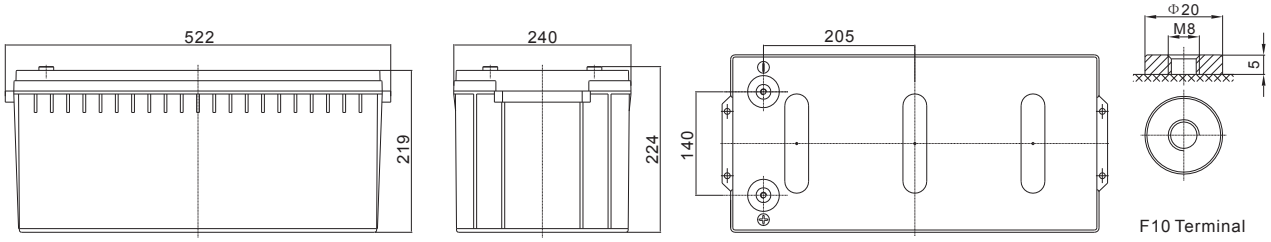
Nominal Voltage	12V	
Nominal Capacity	225 Ah / 11.25 A, 20 hr, 1.75 V/cell	
	193.75 Ah / 38.75 A, 5 hr, 1.75 V/cell	
Approx. Weight	61.0kg (±5%)	
Terminal	M8	
Container Material	ABS UL94 HB	
Max. Discharge Current	2250A (5s)	
Internal Resistance	Approx. 3.2mΩ	
Operating Temp. Range	Discharge:	-15~50°C
	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: 522±2 Length X 240±2 Width X 219±2 Height (224±2 Height incl. Terminal)



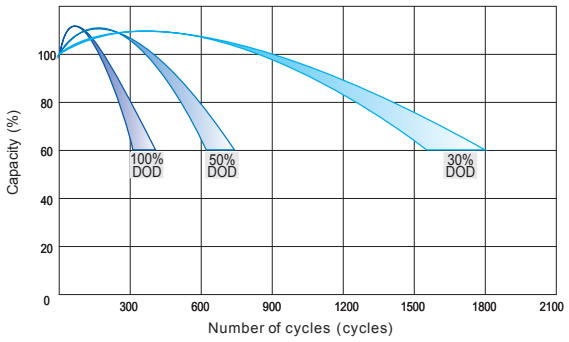
Constant Current Discharge (Amperes) at 25°C

F.V/Time	15min	30min	1h	2h	3h	4h	5h	8h	10h	20h
1.60V/cell	394.5	242.6	136.7	81.38	63.39	49.73	42.30	27.13	22.50	11.66
1.65V/cell	368.9	229.8	132.0	78.65	61.44	48.24	40.97	26.92	22.29	11.60
1.70V/cell	347.0	217.9	127.8	76.56	58.85	46.75	39.86	26.49	21.86	11.45
1.75V/cell	325.0	209.3	123.8	73.62	57.33	45.48	38.75	26.06	21.64	11.25
1.80V/cell	297.6	201.6	118.3	71.10	56.25	44.41	38.25	25.63	21.43	11.14
1.85V/cell	246.2	170.9	105.6	65.02	52.36	41.65	35.21	24.14	20.14	11.04

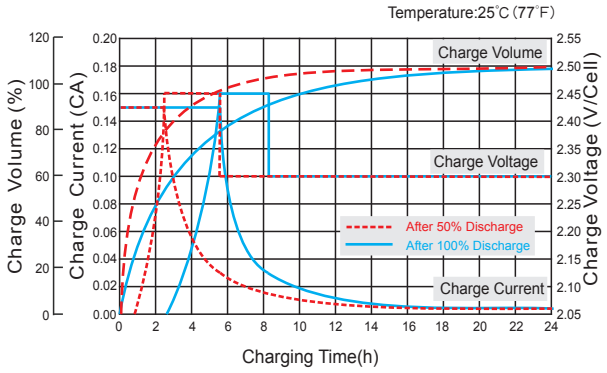
Constant Power Discharge (Watts/cell) at 25°C

F.V/Time	15min	30min	1h	2h	3h	4h	5h	8h	10h	20h
1.60V/cell	688.2	440.8	256.5	153.9	120.4	95.84	80.06	52.87	44.13	23.28
1.65V/cell	669.1	430.5	252.2	149.7	117.4	93.50	77.90	52.45	43.70	23.07
1.70V/cell	633.3	409.7	244.8	146.0	112.9	90.53	75.95	51.81	42.85	22.86
1.75V/cell	597.8	395.4	238.0	140.8	110.1	88.40	74.22	50.97	42.43	22.45
1.80V/cell	552.6	382.6	228.3	137.6	109.5	86.70	73.22	50.12	42.00	22.24
1.85V/cell	464.3	328.1	205.0	126.7	102.1	81.60	67.73	47.37	39.67	22.03

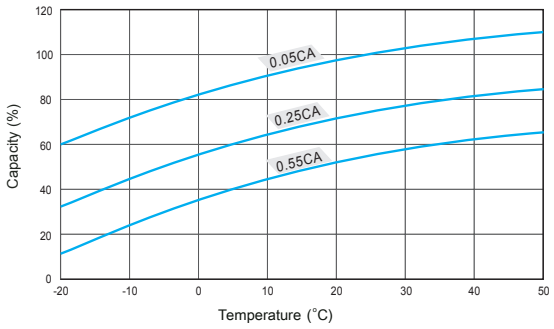
Cycle Service Life in Relation to Depth of Discharge



Charging Characteristics (25°C)



Temperature Effects in Relation to Battery Capacity



Self Discharge Characteristics

