sunbattery®

HC12-110 M8 (12V110Ah)

AGM-Technology | Maintenance Free | Extra Cycle Stability | -15°C to +50°C | Recyclable

High Cycle Type | Reha | Wind/Solar Energy | Caravan | Stairlifts



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

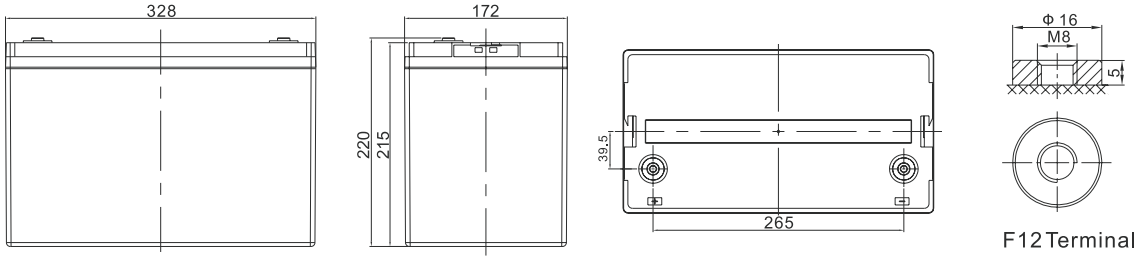
Nominal Voltage	12V	
Nominal Capacity	110 Ah / 5.50 A, 20 hr, 1.75 V/cell	
	96 Ah / 19.20 A, 5 hr, 1.75 V/cell	
Approx. Weight	30.5kg (±5%)	
Terminal	M8	
Container Material	ABS UL94 HB	
Max. Discharge Current	1100A (5s)	
Internal Resistance	Approx. 5.5mΩ	
Operating Temp. Range	Discharge:	-15~50°C
	Charge:	-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: 328±2 Length X 172±2 Width X 215±2 Height (220±2 Height incl. Terminal)



F12 Terminal

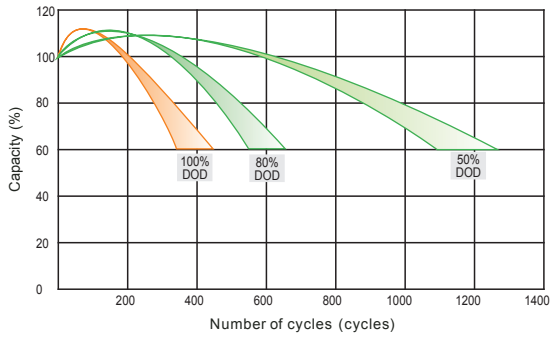
Constant Current Discharge (Amperes) at 25°C

F.V/Time	10min	15min	30min	1h	2h	3h	4h	5h	8h	10h	20h
1.60V/cell	265.3	206.5	122.9	67.2	39.9	31.0	24.4	20.7	13.6	11.0	5.73
1.65V/cell	250.6	197.4	118.0	64.9	38.6	30.1	23.7	20.2	13.5	10.9	5.64
1.70V/cell	230.8	184.9	112.7	62.8	37.3	29.2	23.1	19.7	13.3	10.7	5.57
1.75V/cell	211.2	172.1	107.8	60.5	36.0	28.4	22.5	19.2	13.1	10.6	5.50
1.80V/cell	191.2	158.9	103.0	58.2	34.7	27.5	21.8	18.7	12.9	10.5	5.45

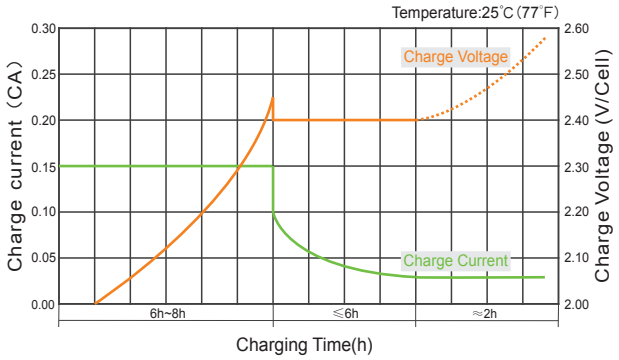
Constant Power Discharge (Watts/cell) at 25°C

F.V/Time	10min	15min	30min	1h	2h	3h	4h	5h	8h	10h	20h
1.60V/cell	450.9	361.0	223.2	126.3	75.5	59.2	46.8	40.0	26.6	21.7	11.3
1.65V/cell	434.3	350.2	216.5	122.7	73.5	57.7	45.7	39.1	26.4	21.4	11.1
1.70V/cell	407.1	332.9	209.0	119.4	71.5	56.3	44.6	38.2	26.0	21.1	11.0
1.75V/cell	379.4	314.3	201.8	115.8	69.3	54.9	43.7	37.4	25.7	20.9	10.9
1.80V/cell	349.4	294.3	194.9	112.0	67.1	53.4	42.6	36.6	25.4	20.6	10.8

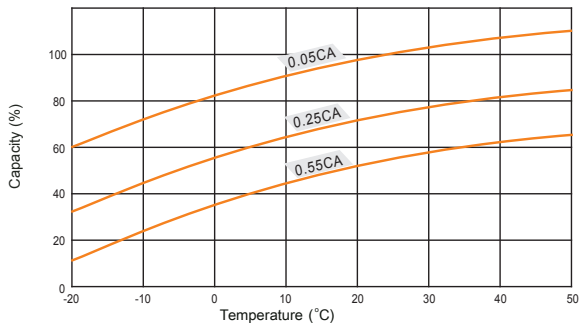
Cycle Service Life in Relation to Depth of Discharge



Charging Characteristics (25°C)



Temperature Effects in Relation to Battery Capacity



Self Discharge Characteristics

