sunbattery®

HC12-55 M6 (12V55Ah)

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

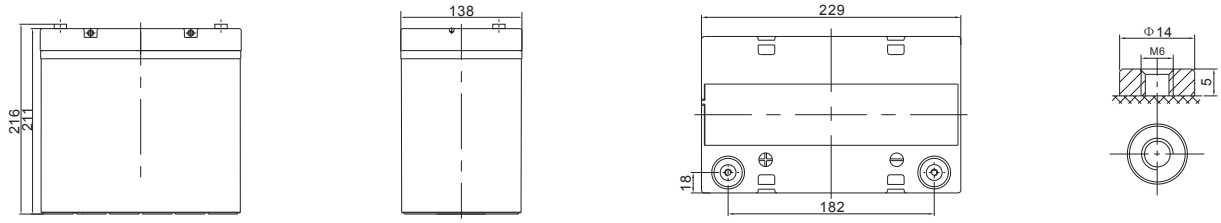
Nominal Voltage	12V	
Nominal Capacity	55 Ah / 2.75 A, 20 hr, 1.75 V/cell	
	47.36 Ah / 9.47 A ,5 hr, 1.75 V/cell	
Approx. Weight	16.5kg (±5%)	
Terminal	M6	
Container Material	ABS UL94 HB	
Max. Discharge Current	550A (5s)	
Internal Resistance	Approx. 7.5mΩ	
Operating Temp. Range	Discharge:	-15~50°C
	Charge:	-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

M6 Terminal

Unit: mm | Dimensions: 229±2 Length X 138±2 Width X 211±2 Height (216±2 Height incl. Terminal)



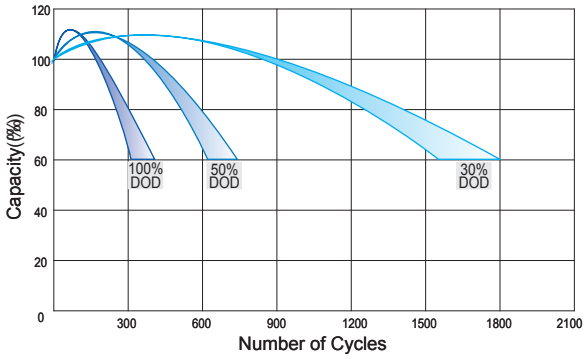
Constant Current Discharge (Amperes) at 25°C

End Point	10min	15min	30min	1h	2h	3h	4h	5h	8h	10h	20h
1.60V/cell	133.5	101.5	59.90	33.40	19.89	15.50	12.16	10.34	6.63	5.50	2.85
1.65V/cell	123.0	94.93	56.74	32.27	19.23	15.02	11.79	10.01	6.58	5.45	2.84
1.70V/cell	114.0	89.27	53.80	31.23	18.71	14.38	11.43	9.75	6.48	5.34	2.80
1.75V/cell	104.6	83.62	51.67	30.25	18.00	14.01	11.12	9.47	6.37	5.29	2.75
1.80V/cell	95.19	76.57	49.77	28.91	17.38	13.75	10.86	9.35	6.27	5.24	2.72

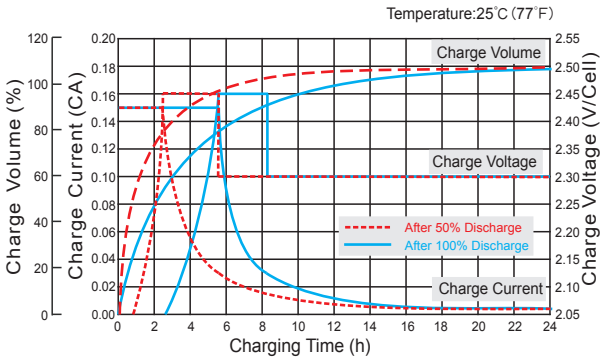
Constant Power Discharge (Watts/cell) at 25°C

End Point	10min	15min	30min	1h	2h	3h	4h	5h	8h	10h	20h
1.60V/cell	227.4	177.1	108.8	62.71	37.61	29.42	23.43	19.57	12.92	10.79	5.69
1.65V/cell	219.0	172.2	106.3	61.64	36.60	28.69	22.86	19.04	12.82	10.68	5.64
1.70V/cell	204.4	163.0	101.2	59.83	35.68	27.59	22.13	18.57	12.67	10.48	5.59
1.75V/cell	190.2	153.8	97.63	58.17	34.41	26.91	21.61	18.14	12.46	10.37	5.49
1.80V/cell	175.2	142.2	94.47	55.79	33.63	26.76	21.19	17.90	12.25	10.27	5.44

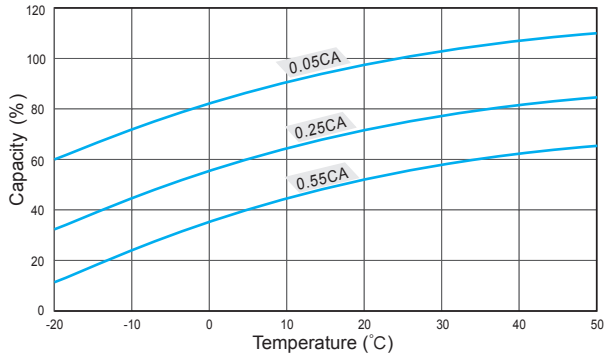
Cycle Service Life in Relation to Depth of Discharge



Charging Characteristics (25°C)



Temperature Effects in Relation to Battery Capacity



Self Discharge Characteristics

