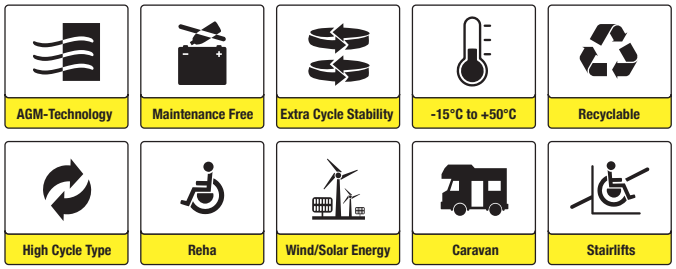
sunbattery®

HC12-30 M6 (12V30Ah)



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

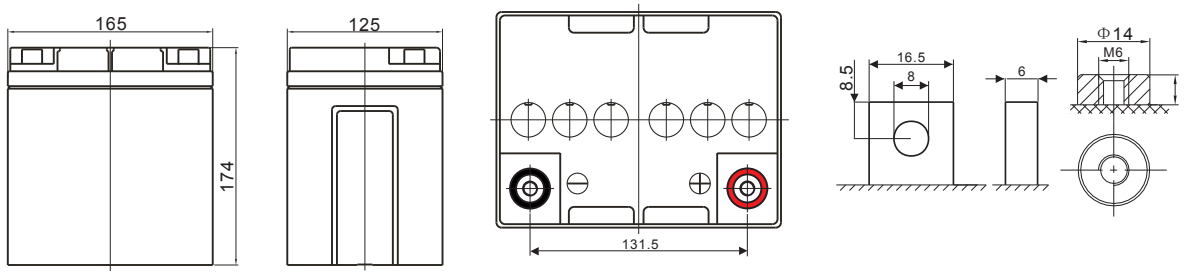
Specifications

Nominal Voltage	12V	
Nominal Capacity	30 Ah / 1.50 A, 20 hr, 1.75 V/cell	
	14.97 Ah / 2.99 A, 5 hr, 1.75 V/cell	
Approx. Weight	8.8kg (±5%)	
Terminal	M6	
Container Material	ABS UL94 HB	
Max. Discharge Current	280A (5s)	
Internal Resistance	Approx. 9.5mΩ	
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: 165±1.5 Length X 125±1.5 Width X 174±1.5 Height (174±1.5 Height incl. Terminal)



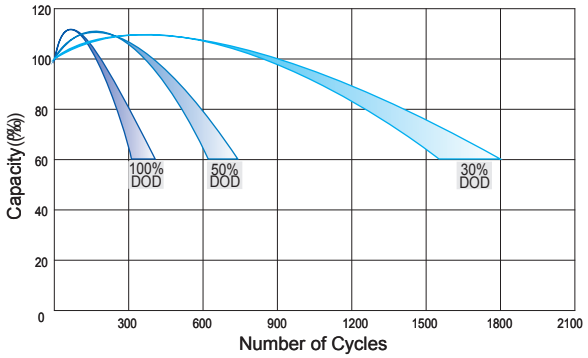
Constant Current Discharge (Amperes) at 25°C

End Point	10min	15min	30min	1h	2h	3h	4h	5h	8h	10h	20h
1.60V/cell	69.96	53.38	31.68	17.75	10.65	8.36	6.58	5.62	3.61	3.00	1.56
1.65V/cell	64.30	49.82	29.95	17.12	10.28	8.09	6.37	5.43	3.58	2.97	1.55
1.70V/cell	59.47	46.77	28.35	16.56	9.99	7.73	6.16	5.27	3.52	2.91	1.53
1.75V/cell	54.46	43.73	27.19	16.01	9.59	7.53	5.99	5.12	3.46	2.88	1.50
1.80V/cell	49.46	39.95	26.16	15.27	9.25	7.38	5.84	5.05	3.40	2.85	1.48

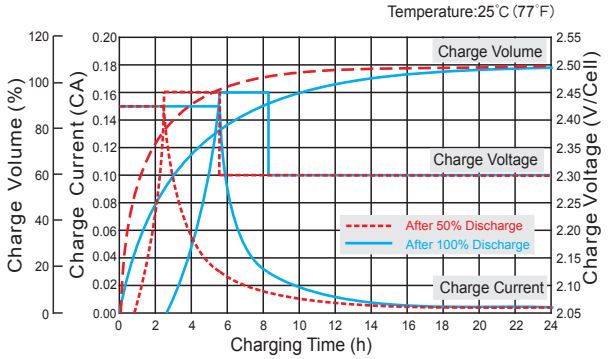
Constant Power Discharge (Watts/cell) at 25°C

End Point	10min	15min	30min	1h	2h	3h	4h	5h	8h	10h	20h
1.60V/cell	119.15	93.12	57.57	33.32	20.14	15.88	12.683	10.63	7.03	5.88	3,10
1.65V/cell	114.47	90.35	56.10	32.70	19.56	15.47	12.353	10.32	6.97	5.82	3.08
1.70V/cell	106.57	85.37	53.30	31.70	19.05	14.84	11.939	10.05	6.88	5.70	3.05
1.75V/cell	99.00	80.43	51.37	30.79	18.34	14.45	11.635	9.80	6.76	5.64	2.99
1.80V/cell	91.04	74.19	49.64	29.47	17.90	14.35	11.399	9.67	6.64	5.58	2.96

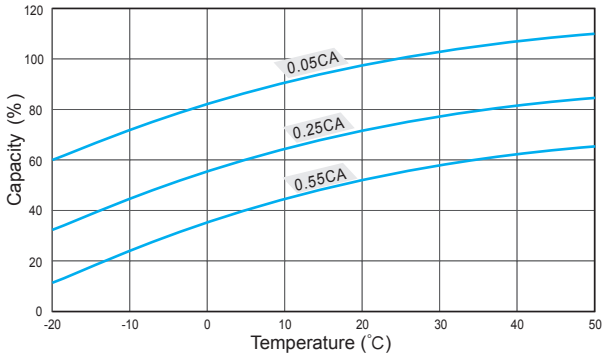
Cycle Service Life in Relation to Depth of Discharge



Charging Characteristics (25°C)



Temperature Effects in Relation to Battery Capacity



Self Discharge Characteristics

