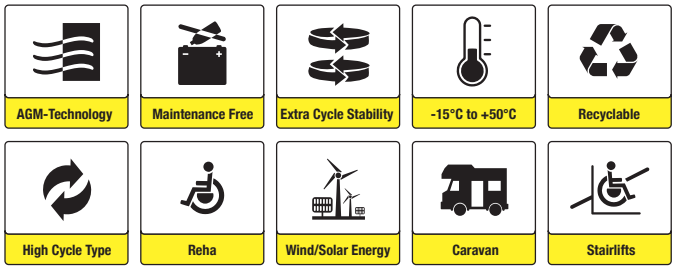
sunbattery®

HC12-5 T1 (12V5Ah)



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

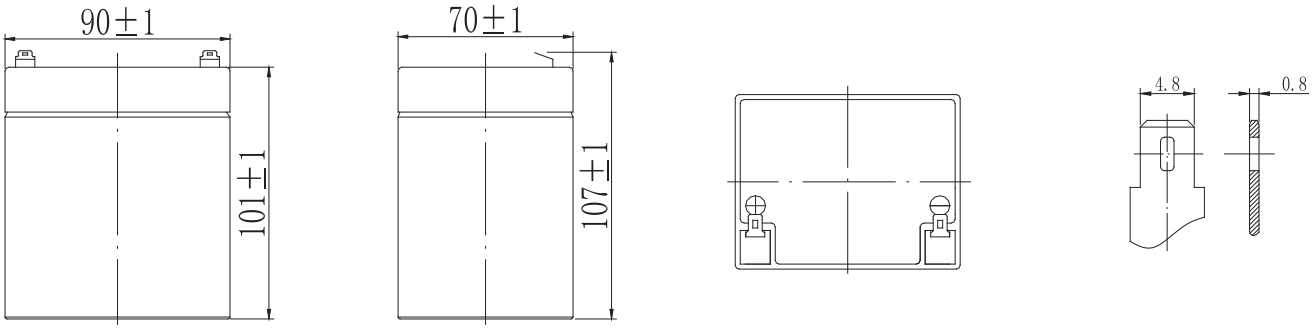
Nominal Voltage	12V	
Nominal Capacity	5 Ah / 0.25 A, 20 hr, 1.75 V/cell	
	4.3 Ah / 0.86 A, 5 hr, 1.75 V/cell	
Approx. Weight	1.65kg (±5%)	
Terminal	T1	
Container Material	ABS UL94 HB	
Max. Discharge Current	75A (5s)	
Internal Resistance	Approx. 26mΩ (25°C)	
Operating Temp. Range	Discharge:	-15~50°C
	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

- **T1 Terminal**

Unit: mm | Dimensions: 90±1 Length X 70±1 Width X 101±1 Height (107±1 Height incl. Terminal)



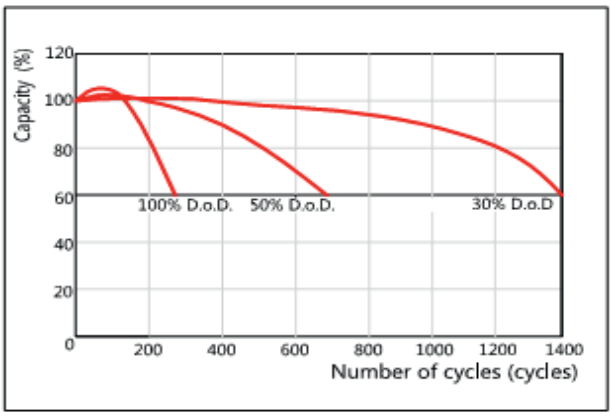
Constant Current Discharge (Amperes) at 25°C

End Point	5min	10min	15min	30min	1h	2h	3h	4h	5h	10h	20h
1.60V/cell	19.4	12.2	9.57	5.35	3.29	1.79	1.29	1.03	0.87	0.48	0.26
1.65V/cell	18.8	11.9	9.39	5.24	3.24	1.78	1.28	1.02	0.87	0.47	0.26
1.70V/cell	18.0	11.4	9.00	5.09	3.15	1.76	1.26	1.01	0.86	0.47	0.25
1.75V/cell	17.2	10.9	8.71	4.96	3.09	1.74	1.26	1.01	0.86	0.46	0.25
1.80V/cell	16.3	10.3	8.29	4.77	2.99	1.69	1.22	0.98	0.83	0.46	0.25

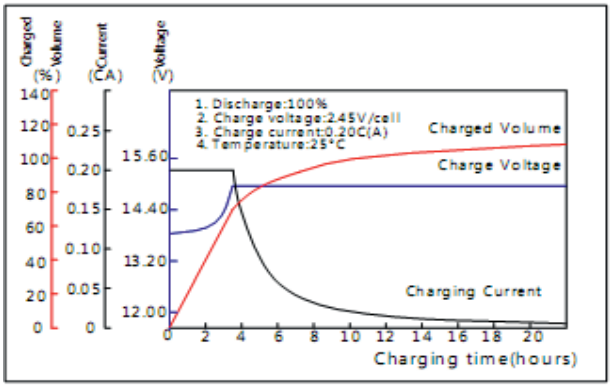
Constant Power Discharge (Watts/cell) at 25°C

End Point	5min	10min	15min	30min	1h	2h	3h	4h	5h	10h	20h
1.60V/cell	36.00	22.83	18.17	10.22	6.33	3.48	2.55	2.03	1.73	0.95	0.51
1.65V/cell	35.00	22.33	17.67	10.02	6.23	3.47	2.53	2.02	1.73	0.95	0.51
1.70V/cell	33.50	21.33	17.00	9.72	6.08	3.43	2.50	2.02	1.72	0.94	0.51
1.75V/cell	32.17	20.50	16.55	9.50	5.97	3.38	2.48	2.00	1.70	0.94	0.50
1.80V/cell	30.50	19.33	15.72	9.13	5.77	3.30	2.43	1.93	1.66	0.92	0.50

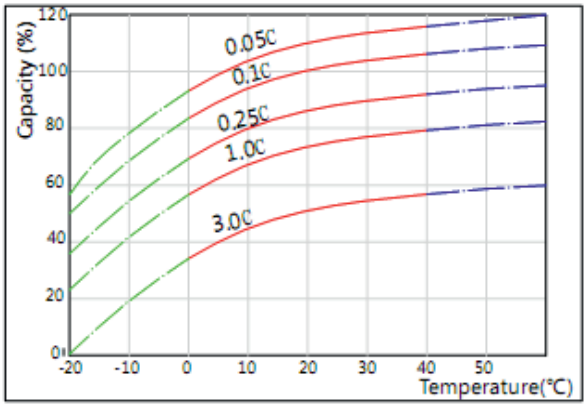
Cycle Service Life in Relation to Depth of Discharge



Charging Characteristics (25°C)



Temperature Effects in Relation to Battery Capacity



Self Discharge Characteristics

