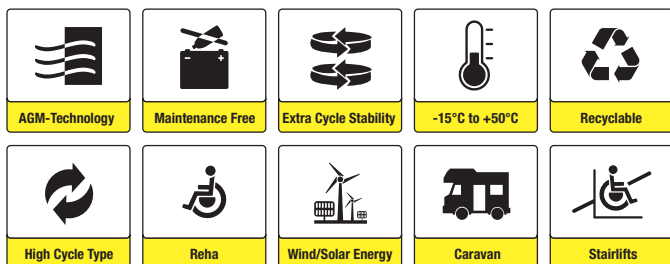




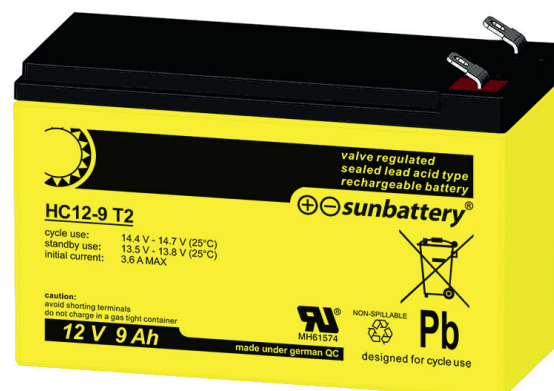
⊕⊖ **sunbattery®**

HC12-9 T2 (12V9Ah)



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

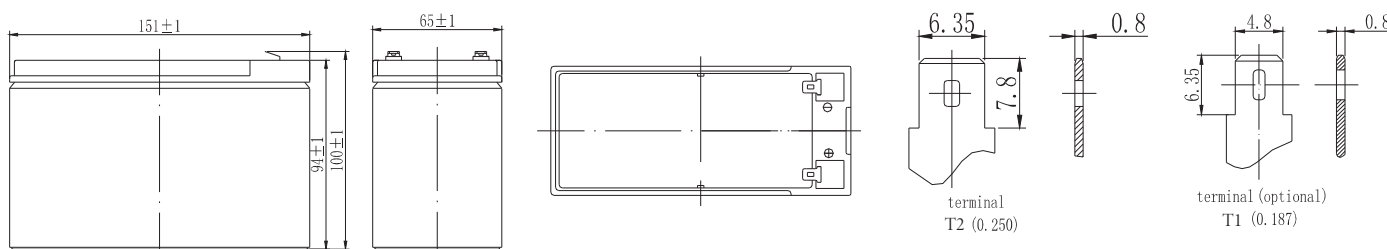
Specifications

Nominal Voltage	12V	Nominal Oper. Temp. R.	25±3°C
Nominal Capacity	9Ah (C ₂₀ 1.75V/cell)	Cycle Use	Initial Charging Current less than 3.6A. Voltage 14.4V~14.7V at 25°C. Temperature Coefficient -30mV/°C.
Approx. Weight	2.80kg	Standby Use	Initial Charging Current less than 3.6A. Voltage 13.5V~13.8V at 25°C Temp. Coefficient -20mV/°C
Terminal	T2 (Optional: T1)	Capacity affected by Temp.	40°C 103% 25°C 100% 0°C 86%
Container Material	ABS UL94 HB (Optional: V0)	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.
Rated Capacity (25°C)	9.0Ah/0.45A, 20hr, 1.75V/cell 8.2Ah/0.82A, 10hr, 1.75V/cell 7.7Ah/1.54A, 5hr, 1.75V/cell 6.99Ah/2.33A, 3hr, 1.60V/cell 5.8Ah/5.80A, 1hr, 1.60V/cell	Cycle Life	Approx. 450 cycles at 50% DOD
Max. Discharge Current	135A (5s)		
Internal Resistance	Approx. 18mΩ		
Operating Temp. Range	Discharge: -15~50°C Charge: 0-40°C Storage: -15~40°C		

Dimensions

■ T2 Terminal (Optional: T1 Terminal)

Unit: mm [inches]





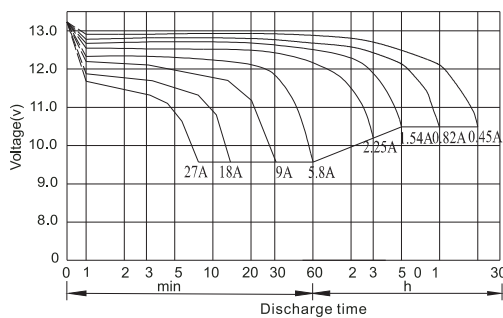
Constant Current Discharge (Amperes) at 25°C

End Point	5min	10min	15min	30min	1h	3h	5h	10h	20h
1.60V/cell	33.0	24.2	17.0	9.90	5.80	2.33	1.60	0.87	0.47
1.65V/cell	32.1	23.6	16.5	9.79	5.75	2.29	1.56	0.86	0.46
1.70V/cell	30.9	22.9	16.1	9.36	5.71	2.25	1.55	0.84	0.46
1.75V/cell	30.3	22.1	14.6	8.91	5.66	2.20	1.54	0.82	0.45
1.80V/cell	29.6	21.0	13.9	8.45	5.51	2.14	1.53	0.82	0.44

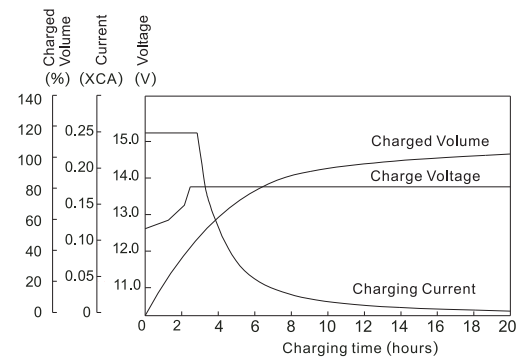
Constant Power Discharge (Watts/cell) at 25°C

End Point	5min	10min	15min	30min	45min	1h	2h	3h	5h
1.60V/cell	71.7	44.8	33.6	19.6	14.5	11.5	6.30	4.34	3.10
1.65V/cell	68.3	44.3	33.1	19.1	14.2	11.2	6.23	4.29	3.04
1.70V/cell	64.8	42.9	31.1	18.5	13.7	11.0	6.08	4.20	2.98
1.75V/cell	61.4	41.1	30.2	17.6	12.9	10.7	5.94	4.08	2.92
1.80V/cell	58.0	39.2	28.4	16.6	12.2	10.4	5.77	3.92	2.85

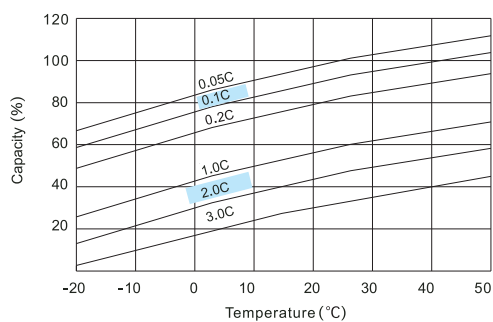
Discharge Characteristics (25°C)



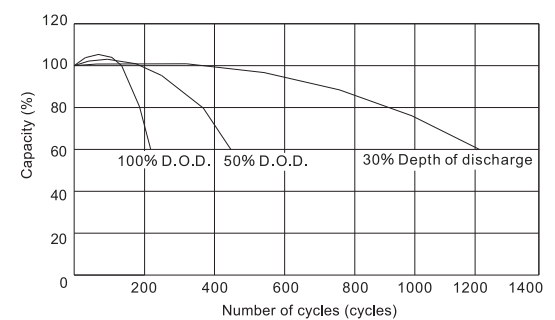
Float Charging Characteristics (25°C)



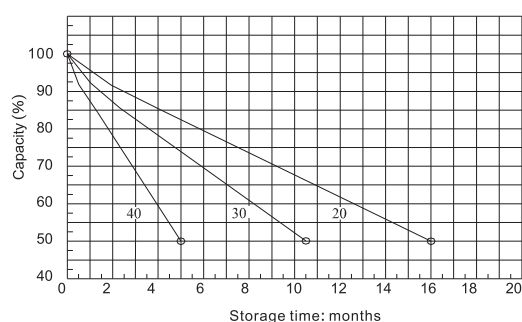
Temperature Effects in Relation to Battery Capacity



Cycle Service Life in Relation to Depth of Discharge



Self Discharge Characteristics



Temperature Effects on Float Life

