Leader-General Purpose

CTH12-12 (12V12AH)

Specification

Article number:460-6305

Nominal Voltage	12V
Nominal Capacity(20HR)	12Ah
Dimensions	Length 151mm (5.95 inches) Width 98mm (3.86 inches) Container Height 95mm (3.74 inches) Total Height (with Terminal) 101mm (3.98 inches)
Approx Weight	Approx 3.85 kg (8.49 lbs)
Terminal	T2
Container Material	ABS
Rated Capacity	12Ah / 0.600A (20hr,10.5V,25°C/77°F) 11.6Ah / 1.16A (10hr,10.5V,25°C/77°F) 10.65Ah / 2.13A (5hr,10.5V,25°C/77°F) 7.89Ah / 7.89A (1hr,9.6V,25°C/77°F)
Max. Discharge Current	180A (5s)(**25ÁC/77ÁF**)
Internal Resistance	Fully charged battery(25ÁC/77ÁF)Approx 22mΩ
Operating Temp.Range	Discharge : -15～50°C (5～122°F) Charge : -20～40°C (-4～104°F) Storage : -15～40°C (5～104°F)
Nominal Operating Temp. Range	25±3°C (77±5°F)
Cycle Use	Initial Charging Current less than 3.6A.Voltage 14.4V~15.0V at 25°C(77°F)Temp. Coefficient -30mV/°C
Standby Use	Initial Charging Current less than 3.6A.Voltage 13.5V~13.8V at 25°C(77°F)Temp. Coefficient -20V/°C
Self Discharge	3% of capacity declined per month at 20ÁC(Average)

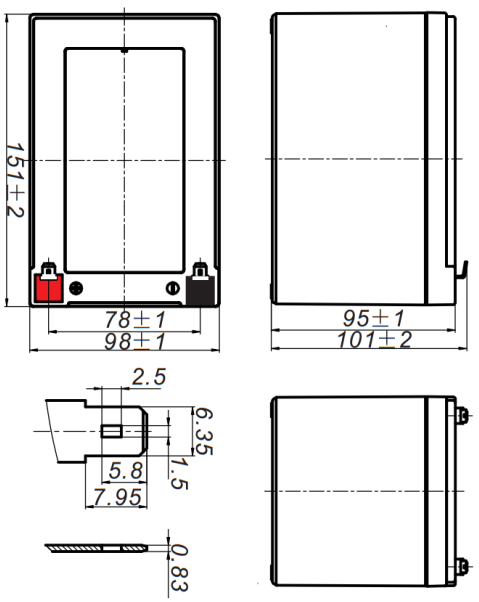
Applications

- *Emergency backup power supply*
- *Emergency light*
- *Railway signal*
- *Aircraft signal*
- *Alarm and security system*
- *Electronic apparatus and equipment*
- *Communication power supply*
- *DC power supply*
- *Auto control system*

Dimensions

T2 Terminal

Unit: mm



Constant Current Discharge (Amperes) at 25 °C (77°F)

F.V/Time	5min	10min	15min	30min	1h	3h	5h	10h	20h
1.60V/cell	....	30.0	22.6	18.4	7.89	3.27	2.22	1.20	0.619
1.67V/cell	....	28.3	21.6	17.7	7.70	3.20	2.18	1.18	0.610
1.70V/cell	....	27.6	21.1	17.4	7.62	3.17	2.16	1.17	0.607
1.75V/cell	....	26.3	20.4	16.9	7.49	3.13	2.13	1.16	0.600
1.80V/cell	....	25.1	19.7	16.4	7.36	3.08	2.11	1.14	0.595

Constant Power Discharge (Watts/cell) at 25 °C (77°F)

F.V/Time	5min	10min	15min	30min	45min	1h	2h	3h	5h
1.60V/cell	....	55.8	42.2	25.6	18.5	15.1	8.74	6.35	4.34
1.67V/cell	....	53.0	40.7	25.0	18.1	14.8	8.60	6.25	4.28
1.70V/cell	....	51.8	40.0	24.7	18.0	14.7	8.53	6.20	4.25
1.75V/cell	....	49.8	38.8	24.2	17.7	14.5	8.42	6.12	4.20
1.80V/cell	....	47.7	37.6	23.8	17.4	14.3	8.31	6.05	4.15

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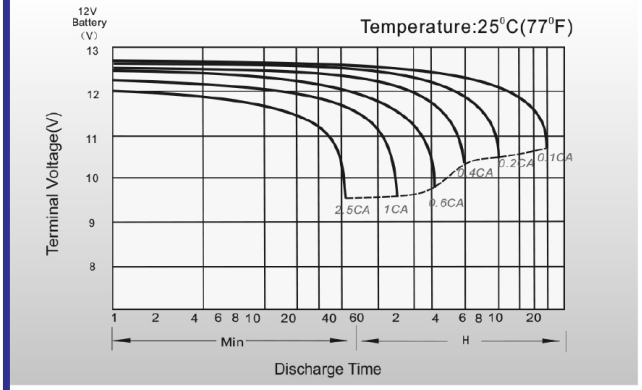
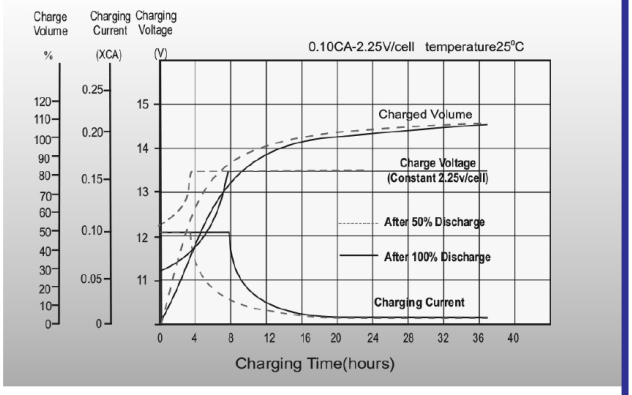
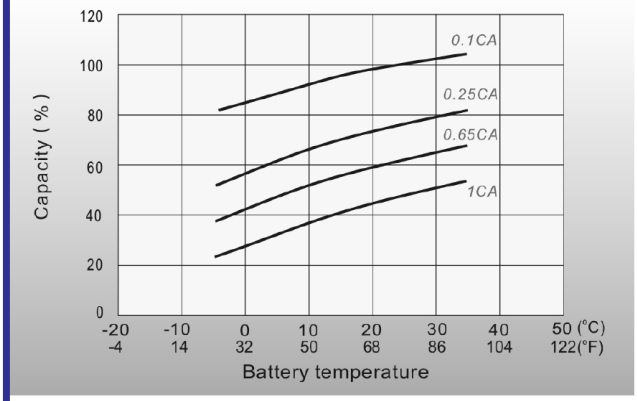
Discharge Characteristics



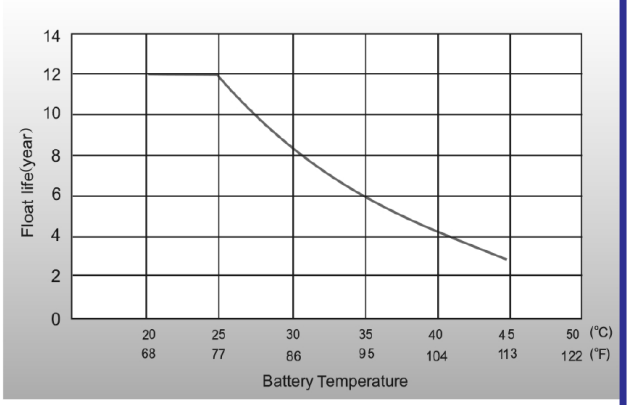
Float Charging Characteristics



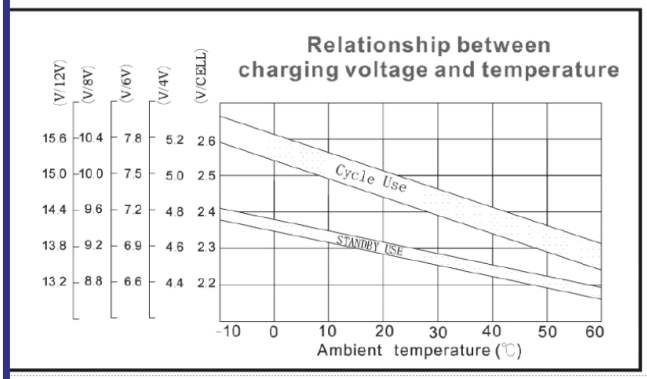
Temperature Effects in Relation to Battery Capacity

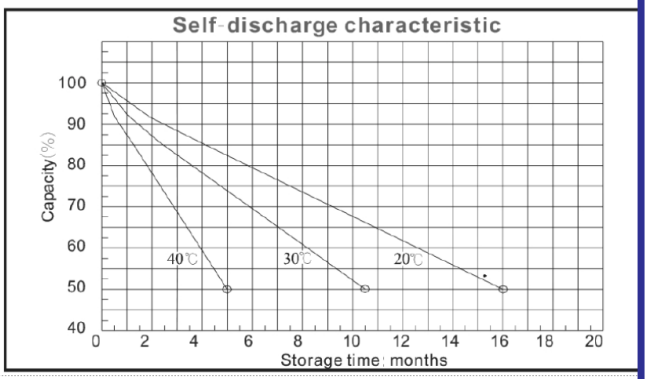


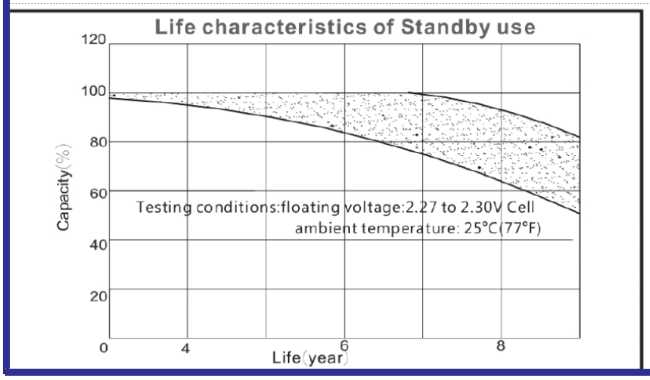
Effect of Temperature on Long Term Float Life

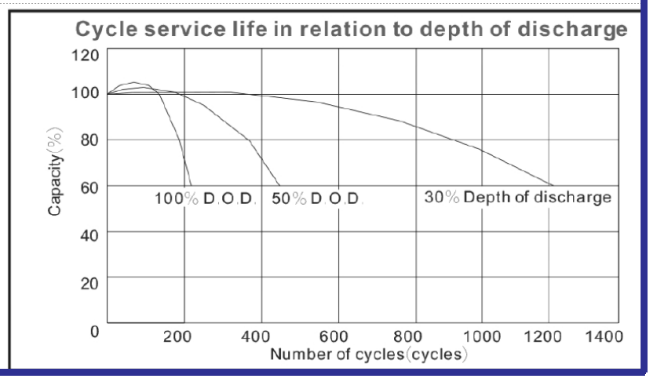


General diagrams









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