Celltech

Leader-High performance

CTH7-12 (12V7AH)

Specification

Article number:460-6300

Nominal Voltage	12V	
Nominal Capacity(20HR)	7Ah	
Dimensions	Length	151mm (5.95 inches)
	Width	65mm (2.56 inches)
	Container Height	93.5mm (3.70 inches)
	Total Height (with Terminal)	99mm (3.92 inches)
Approx Weight	Approx 2.50 kg (5.51 lbs)	
Terminal	T1	
Container Material	ABS	
Rated Capacity	7.0Ah / 0.350A	(20hr,10.5V,25°C/77°F)
	6.92Ah / 0.692A	(10hr,10.5V,25°C/77°F)
	6.40Ah / 1.28A	(5hr,10.5V,25°C/77°F)
	4.88Ah / 4.88A	(1hr,9.6V,25°C/77°F)
Max. Discharge Current	105A (5s)(**25°C/77°F)**	
Internal Resistance	Fully charged battery(25°C/77°F) Approx 28mΩ	
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 2.1A.Voltage 14.4V~15.0V at 25°C(77°F)Temp. Coefficient -30mV/°C	
Standby Use	Initial Charging Current less than 2.1A.Voltage 13.5V~13.8V at 25°C(77°F)Temp. Coefficient -20V/°C	
Self Discharge	CT series batteries may be stored for up to 6 months at 25°C(77°F) and then a freshening charge is required. For higher temperatures the time intervall will be shorter.	

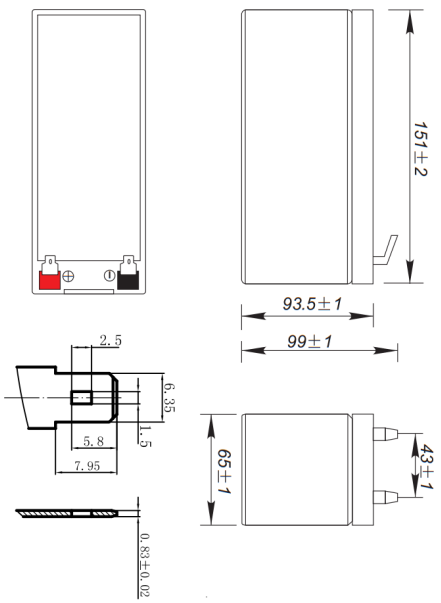
Applications

- *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

T1 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	....	19.5	14.6	8.37	4.88	2.00	1.33	0.716	0.361
1.67V/cell	....	18.4	14.0	8.12	4.77	1.96	1.30	0.705	0.356
1.70V/cell	....	17.9	13.7	8.01	4.72	1.95	1.29	0.700	0.354
1.75V/cell	....	17.1	13.2	7.83	4.64	1.92	1.28	0.692	0.350
1.80V/cell	....	16.3	12.8	7.65	4.56	1.89	1.26	0.684	0.347

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	....	36.2	27.4	15.8	11.5	9.34	5.41	3.90	2.60
1.67V/cell	....	34.4	26.4	15.4	11.2	9.17	5.32	3.83	2.56
1.70V/cell	....	33.6	25.9	15.3	11.1	9.09	5.28	3.80	2.54
1.75V/cell	....	32.3	25.2	15.0	11.0	8.96	5.21	3.76	2.52
1.80V/cell	....	31.0	24.4	14.7	10.8	8.84	5.15	3.71	2.49

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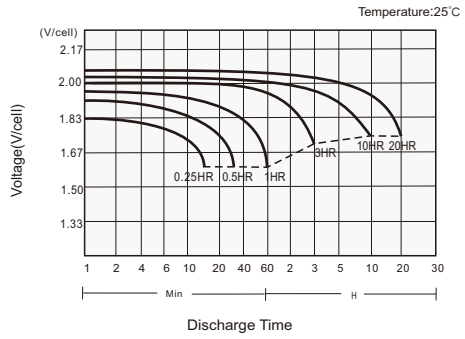
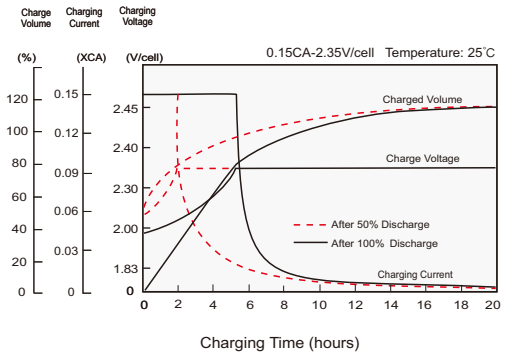
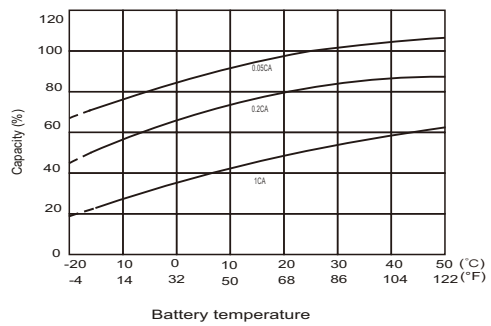
Discharge Characteristics



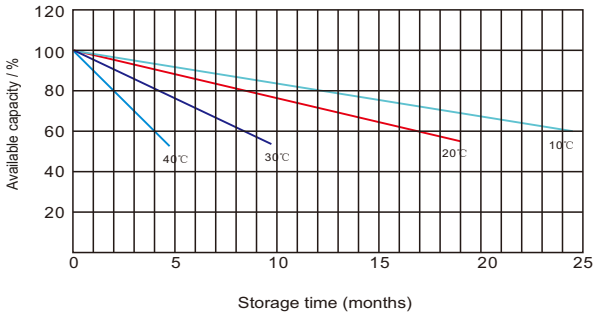
Charging Characteristics



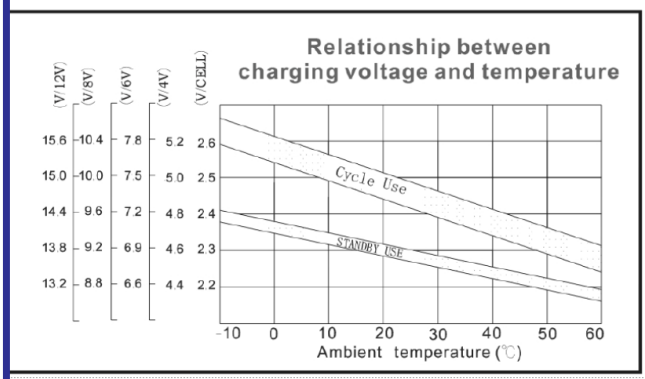
Effects of Temperature on Capacity

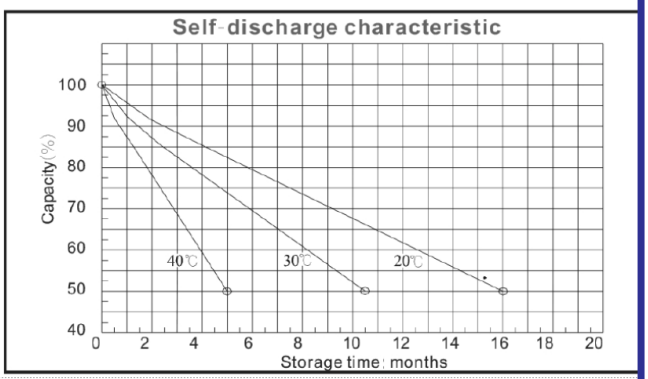


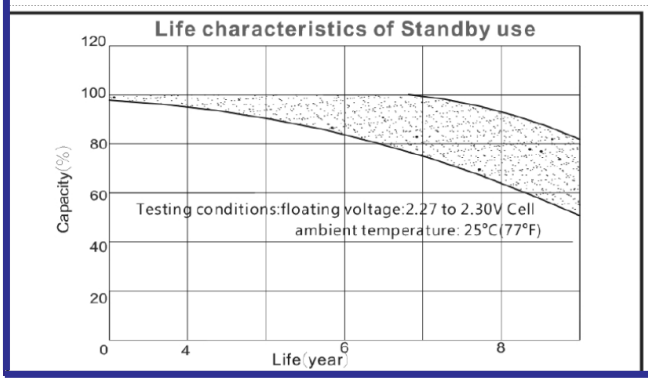
Self Discharge Characteristics

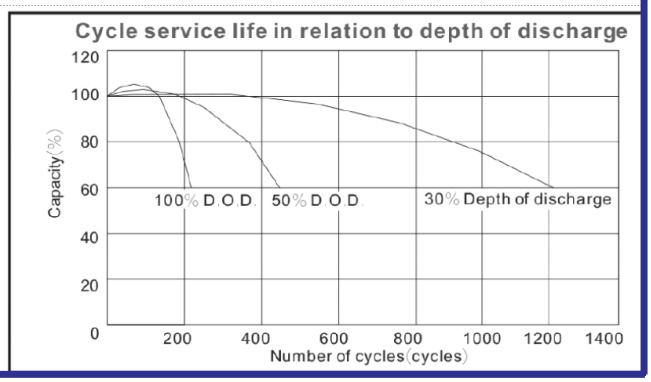


General diagrams









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