CT SERIES-General Purpose

CT12-100/19FT/V0 (12V100AH)

Specification

Code:460-6220

Nominal Voltage	12V	
Nominal Capacity(10HR)	100AH	
Dimensions	Length	394±2mm (15.5 inches)
	Width	110±2mm (4.33 inches)
	Container Height	285±2mm (11.2 inches)
	Total Height (with Terminal)	285±2mm (11.2 inches)
Approx Weight	Approx 34.5 kg (76.1 lbs)	
Terminal	T6-A	
Container Material	ABS: UL94HB-V0	
Rated Capacity	105.4 AH/5.27A	(20hr ,1.80V/cell,25°C/77°F)
	100.0 AH/10.0A	(10hr,1.80V/cell,25°C/77°F)
	86.5 AH/17.3A	(5hr,1.75V/cell,25°C/77°F)
	78.6 AH/26.2A	(3hr,1.75V/cell,25°C/77°F)
	66.4 AH/66.4A	(1hr,1.60V/cell,25°C/77°F)
Max. Discharge Current	1000A (5s)	
Internal Resistance	Approx 5.5mΩ	
Operating Temp.Range	Discharge : -15~50°C (5~122°F)	
	Charge : 0~40°C (32~104°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 30.0A.Voltage 14.4V~15.0V at 25°C(77°F)Temp. Coefficient -30mV/°C	
Standby Use	No limit on Initial Charging Current Voltage 13.5V~13.8V at 25°C(77°F)Temp. Coefficient -20mV/°C	
Capacity affected by Temperature	40°C (104°F)	103%
	25°C (77°F)	100%
	0°C (32°F)	86%
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 interval 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*

Standards

- *Compliance with IEC60896 standards,EU Battery Directive*
- *UL,CE*
- *IATF16949,ISO45001,ISO9001and ISO14001 certified production facilities*

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

F.V/Time	15min	30min	1h	2h	3h	4h	5h	8h	10h	20h
1.85V/cell	128.1	82.7	52.2	31.3	23.6	18.8	15.7	11.1	9.32	4.91
1.80V/cell	149.0	93.6	57.7	34.1	25.6	20.3	16.9	11.9	10.0	5.27
1.75V/cell	157.6	97.8	59.9	35.1	26.2	20.8	17.3	12.1	10.1	5.29
1.70V/cell	166.6	102.1	62.1	36.2	27.0	21.3	17.7	12.3	10.2	5.38
1.67V/cell	171.8	104.7	63.4	36.8	27.4	21.6	17.9	12.4	10.4	5.48
1.60V/cell	184.1	110.6	66.4	38.4	28.4	22.3	18.5	12.7	10.6	5.58

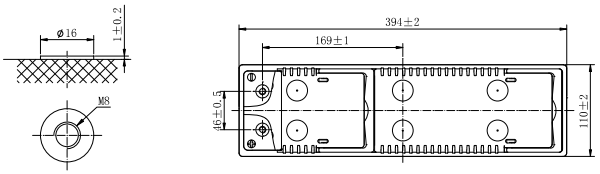
Constant Power Discharge (Watts/cell) at 25°C (77°F)

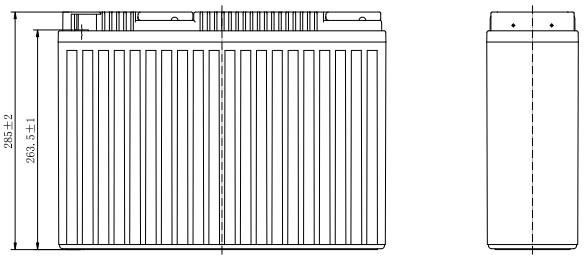
F.V/Time	15min	30min	1h	2h	3h	4h	5h	8h	10h	20h
1.85V/cell	246.1	159.9	101.4	61.2	46.3	37.0	31.0	21.9	18.4	9.89
1.80V/cell	283.2	179.3	111.5	66.3	49.9	39.7	33.2	23.4	19.6	10.4
1.75V/cell	296.5	185.8	114.8	67.9	51.0	40.6	33.9	23.8	19.8	10.5
1.70V/cell	309.8	192.2	118.2	69.7	52.3	41.4	34.6	24.2	20.1	10.7
1.67V/cell	317.8	196.0	120.0	70.6	52.9	41.9	34.9	24.4	20.3	10.7
1.60V/cell	334.3	204.5	124.7	73.0	54.5	43.1	35.8	24.9	20.6	10.9

Dimensions

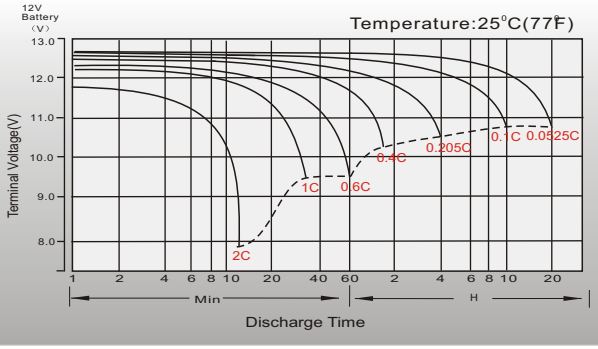
T6-A Terminal

Unit: mm [inches]

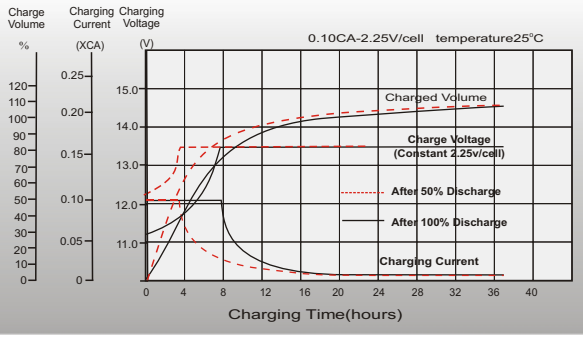




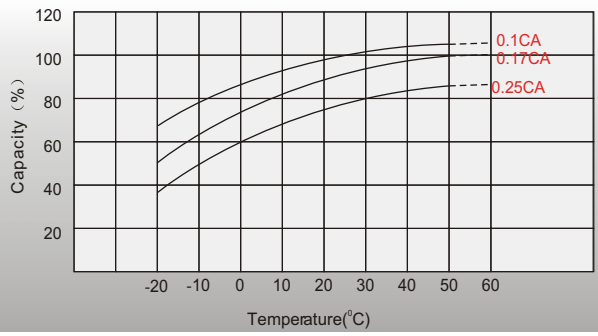
Discharge Characteristics



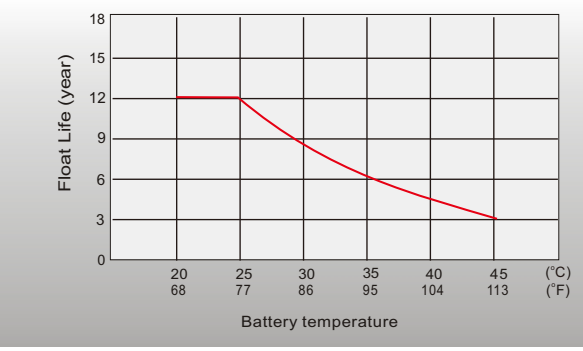
Float Charging Characteristics



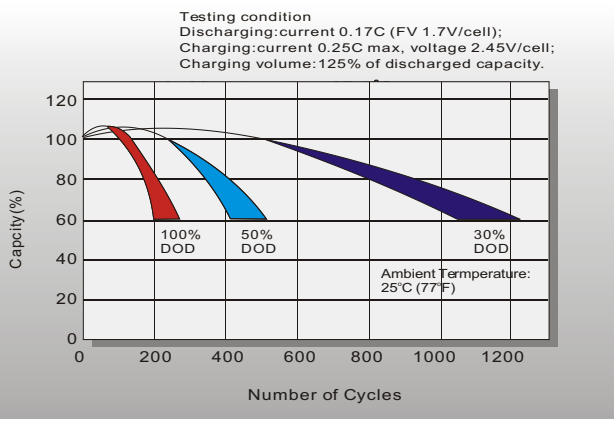
Temperature Effects in Relation to Battery Capacity



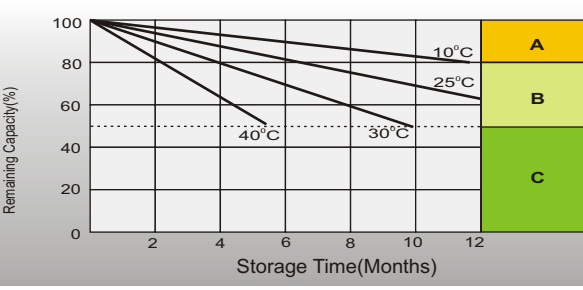
Effect of Temperature on Long Term Float Life



Cycle Life in Relation to Depth of Discharge



Self Discharge Characteristics



A No supplementary charge required
(Carry out supplementary charge before use if 100% capacity is required.)

B Supplementary charge required before use.Optional charging way as below:
1.Charged for above 3 days at limted current 0.25CA and constant volatge 2.25V/cell.
2.Charged for above 20hours at limted current 0.25CA and constant volatge 2.45V/cell.
3.Charged for 8~10hours at limted current 0.05CA .

C Supplementary charge may often fail to recover the capacity.
The battery should never be left standing till this is reached.

Sales Office

For more information and the contact details of the local suppliers,
please visit CELLTECH-GROUP.COM

The data on this datasheet document are for information and descriptive purposes only and are not to make or imply any guarantee or warranty.
No guarantee for zero failure status of given information inside this document. Please see/request detailed specification for finally valid data.