

# CT SERIES-General Purpose

## 460-6065 CT1,8-12C(12V1.8AH)

### Specification

Nominal Voltage	12V	
Nominal Capacity(3 HR)	1.79AH	
Dimensions	Length	182 ± 1mm (7.17 inches)
	Width	24 ± 1mm (0.94 inches)
	Container Height	61 ± 1mm (2.40 inches)
	Total Height (with Terminal)	61 ± 1mm (2.40 inches)
Approx Weight	Approx 0.80 kg (1.76lbs)	
Terminal	\	
Container Material	ABS	
Rated Capacity	2.30 AH/0.115A	(20hr, 1.80V/cell, 25°C/77°F)
	2.14AH/0.214A	(10hr, 1.80V/cell, 25°C/77°F)
	1.95 AH/0.39A	(5hr, 1.75V/cell, 25°C/77°F)
	1.79 AH/0.59A	(3hr, 1.75V/cell, 25°C/77°F)
	1.44 AH/1.44A	(1hr, 1.60V/cell, 25°C/77°F)
Max. Discharge Current	34.5A (5s)	
Internal Resistance	Approx 65mΩ	
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 0.69A. 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

- ◆ All purpose
- ◆ Uninterruptable Power Supply(UPS)
- ◆ Electric Power System (EPS)
- ◆ 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

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

F.V/Time	5min	10min	15min	20min	30min	45min	1h	2h	3h	4h	5h	6h	8h	10h	20h
1.85V/cell	4.27	3.08	2.58	2.20	1.77	1.36	1.11	0.679	0.517	0.425	0.361	0.312	0.248	0.207	0.114
1.80V/cell	5.43	3.67	2.94	2.49	1.96	1.48	1.20	0.721	0.544	0.447	0.376	0.326	0.258	0.214	0.115
1.75V/cell	6.43	4.15	3.25	2.71	2.09	1.57	1.26	0.752	0.563	0.461	0.386	0.334	0.265	0.218	0.116
1.70V/cell	7.30	4.64	3.58	2.93	2.22	1.65	1.32	0.783	0.581	0.472	0.396	0.342	0.269	0.222	0.118
1.65V/cell	8.05	5.01	3.82	3.13	2.34	1.72	1.37	0.806	0.596	0.482	0.405	0.349	0.273	0.225	0.120
1.60V/cell	8.69	5.40	4.09	3.34	2.46	1.79	1.42	0.831	0.610	0.494	0.413	0.356	0.279	0.229	0.121

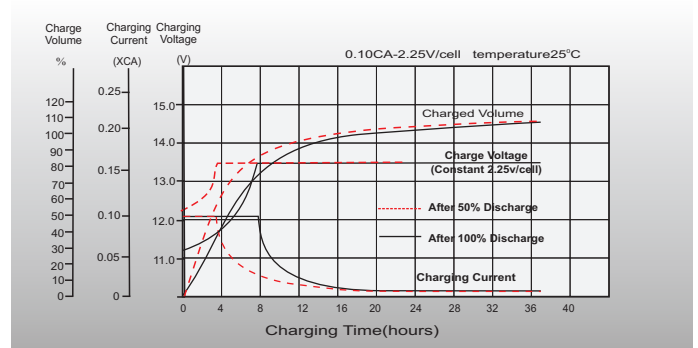
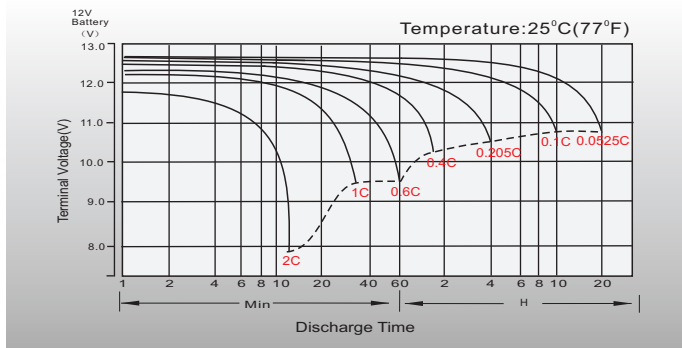
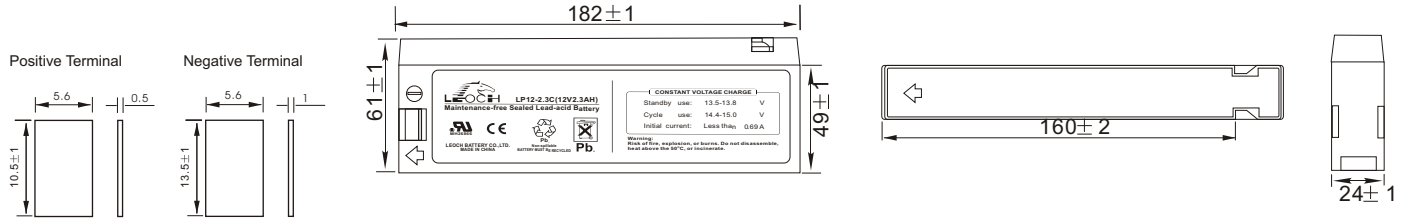
### Constant Power Discharge (Watts) at 25 °C (77°F)

F.V/Time	5min	10min	15min	20min	30min	45min	1h	2h	3h	4h	5h	6h	8h	10h	20h
1.85V/cell	8.09	5.90	4.98	4.29	3.46	2.68	2.20	1.35	1.03	0.852	0.725	0.630	0.502	0.418	0.231
1.80V/cell	10.2	6.98	5.65	4.82	3.82	2.91	2.36	1.43	1.08	0.893	0.754	0.655	0.519	0.432	0.233
1.75V/cell	12.0	7.84	6.20	5.23	4.06	3.08	2.48	1.49	1.12	0.917	0.772	0.669	0.531	0.438	0.234
1.70V/cell	13.5	8.68	6.78	5.62	4.30	3.22	2.59	1.54	1.15	0.937	0.788	0.683	0.537	0.444	0.237
1.65V/cell	14.7	9.29	7.18	5.97	4.51	3.35	2.67	1.58	1.18	0.955	0.804	0.695	0.545	0.449	0.240
1.60V/cell	15.7	9.90	7.63	6.30	4.70	3.46	2.76	1.63	1.20	0.975	0.817	0.706	0.555	0.456	0.241

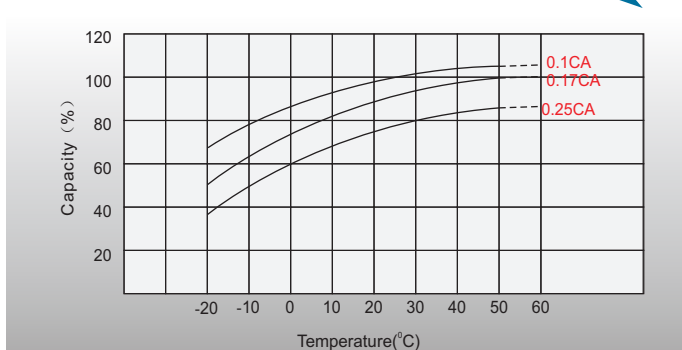
# Dimensions

## Terminal

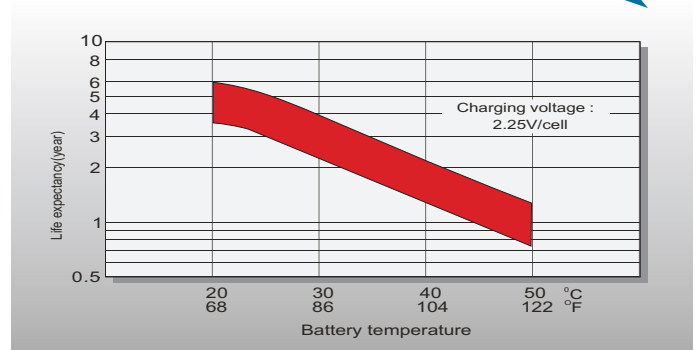
Unit: mm [inches]



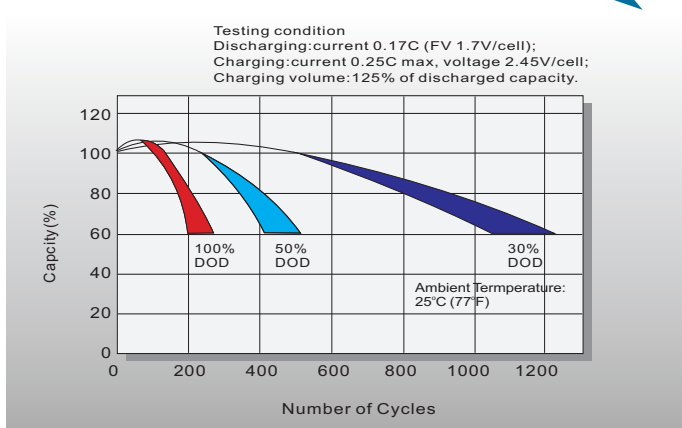
## Temperature Effects in Relation to Battery Capacity



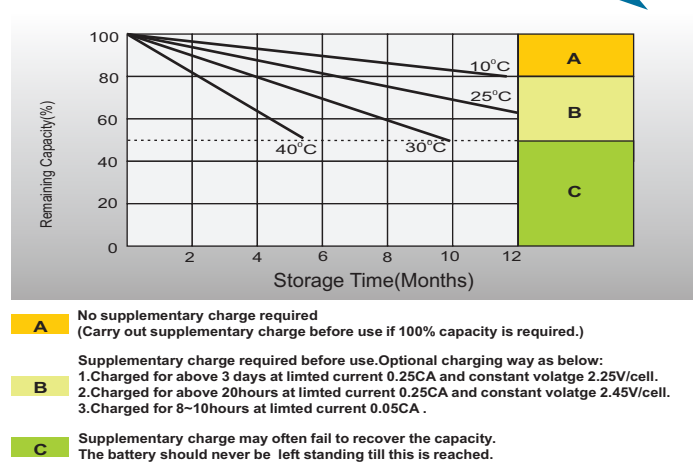
## Effect of Temperature on Long Term Float Life



## Cycle Life in Relation to Depth of Discharge



## Self Discharge Characteristics



## Sales Office

### Sweden

Celltech AB,  
 Äggelundavägen 2, 175 62 Järfälla, Sweden  
 TEL: +46 8445 7870  
 FAX: +46 8445 7878  
 E-mail: order@celltech.se  
 www.celltech.se

### Finland and Baltic countries

Celltech Oy  
 Höllylamitie 11A, 00380 Helsinki, Finland  
 TEL: +358 (0)207 999 640  
 FAX: +358 (0)207 999 641  
 E-mail: info@celltech.fi  
 www.celltech.fi

### Denmark

Celltech A/S  
 Rugmarken 9B, 3520 Farum, Denmark  
 TEL: +45 7025 2201  
 FAX: +45 7025 2202  
 E-mail: info@celltech.dk  
 www.celltech.dk