



**Physical Specification**

Part Number: **CDC12-6**

Length: **151 ± 2 mm ( 5.95 inches)**

Width: **51 ± 2 mm ( 2.01 inches)**

Container Height: **94 ± 2 mm ( 3.70 inches)**

Total Height (with terminal): **100 ± 2 mm ( 3.94 inches)**

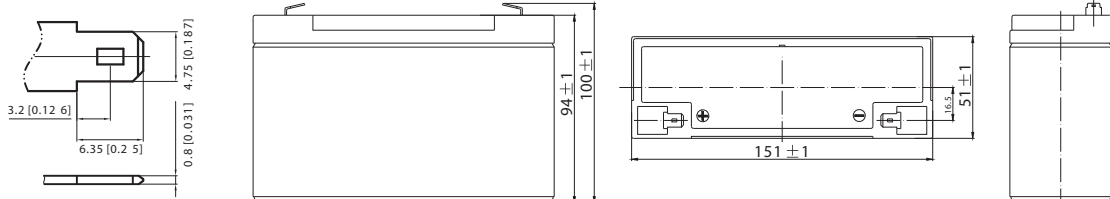
Approx Weight: **Approx 2.05 Kg (4.52 lbs)**

**Specifications**

	Nominal Voltage	6V	
	Nominal Capacity (10HR)	13AH	
<b>Terminal Type</b>	Standard Terminal	T1	
	Optional Terminal	T2	
<b>Container Material</b>	Standard Option	ABS	
	Flame Retardant Option (FR)	ABS (UL94:VO)	
<b>Rated Capacity</b>	13.9 AH/0.70A	(20hr,1.80V/cell, 25°C / 77°F)	
	13.0 AH/1.30A	(10hr,1.80V/cell, 25°C / 77°F)	
	11.4 AH/2.28A	(5hr,1.75V/cell, 25°C / 77°F)	
	10.3 AH/3.45A	(3hr,1.75V/cell, 25°C / 77°F)	
	8.40 AH/8.40A	(1hr,1.60V/cell, 25°C / 77°F)	
<b>Max Discharge Current</b>	195A (5s)		
<b>Internal Resistance</b>	Approx 12. 0Ω		
<b>Discharge Characteristics</b>	Operating Temp. Range	Discharge: -15 ~ 50°C ( - ~ 122°F)	
		Charge: 0 ~ 40°C (32 ~ 104°F)	
		Storage: -15~40°C (-5 ~ 122°F)	
	Nominal Operating Temp. Range	25 ± 3°C (77 ± 5°F)	
	Cycle Use	Initial Charging Current less than 3.9A.Voltage 7.2V ~ 7.5V at 25°C (77°F) Temp. Coefficient -15mV/°C	
	Standby Use	No limit on Initial Charging Current Voltage 6.75V ~ 6.9V at 25°C (77°F) Temp. Coefficient -10mV/°C	
	Capacity affected by Temperature	40°C (104°F)	103%
25°C (77°F)		100%	
0°C (32°F)		86%	
<b>Design Floating Life at 20°C</b>	12 Years		
<b>Self Discharge</b>	Canbat batteries may be stored for up to 6 months at 25°C(°77F) and then a refresh charge is required. For higher temperatures the time interval will be shorter.		

**Dimensions**

**T1 Terminal**



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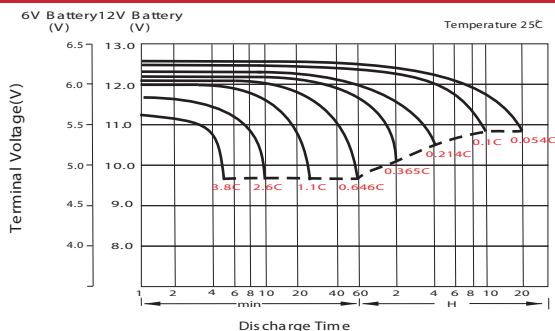
## Constant Current Discharge (Amperes) at 25 °C (77°F)

F.V/Time	10min	15min	20min	30min	45min	1h	2h	3h	4h	5h	6h	8h	10h	20h
1.85V/cell	19.0	16.0	14.0	10.1	8.00	6.49	4.03	3.14	2.55	2.07	1.81	1.47	1.23	0.690
1.80V/cell	24.3	19.4	16.5	11.9	9.30	7.27	4.40	3.38	2.72	2.22	1.94	1.56	1.30	0.697
1.75V/cell	26.7	21.1	17.8	12.3	9.65	7.61	4.56	3.45	2.78	2.28	1.99	1.59	1.31	0.703
1.70V/cell	29.1	22.6	18.7	12.8	10.0	7.85	4.75	3.54	2.85	2.34	2.03	1.61	1.33	0.716
1.65V/cell	31.4	24.0	19.9	13.5	10.3	8.11	4.88	3.69	2.95	2.40	2.07	1.64	1.35	0.725
1.60V/cell	34.1	25.7	21.2	14.3	10.7	8.40	5.04	3.81	3.04	2.48	2.12	1.65	1.37	0.729

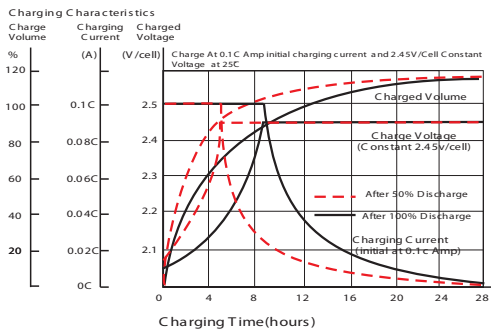
## Constant Power Discharge (Watts) at 25 °C (77°F)

F.V/Time	10min	15min	20min	30min	45min	1h	2h	3h	4h	5h	6h	8h	10h	20h
1.85V/cell	35.5	30.2	26.7	19.4	15.5	12.6	7.86	6.14	4.99	4.06	3.57	2.91	2.43	1.381
1.80V/cell	44.8	35.9	31.0	22.6	17.8	14.0	8.52	6.58	5.30	4.35	3.81	3.09	2.57	1.392
1.75V/cell	48.6	38.9	33.1	23.3	18.4	14.6	8.81	6.68	5.41	4.46	3.91	3.14	2.60	1.404
1.70V/cell	52.2	41.2	34.6	24.2	19.1	15.0	9.14	6.85	5.54	4.56	3.98	3.18	2.62	1.429
1.65V/cell	56.0	43.5	36.6	25.4	19.5	15.5	9.37	7.12	5.72	4.68	4.07	3.23	2.67	1.445
1.60V/cell	59.7	46.0	38.6	26.5	20.2	15.9	9.63	7.30	5.87	4.81	4.15	3.25	2.70	1.451

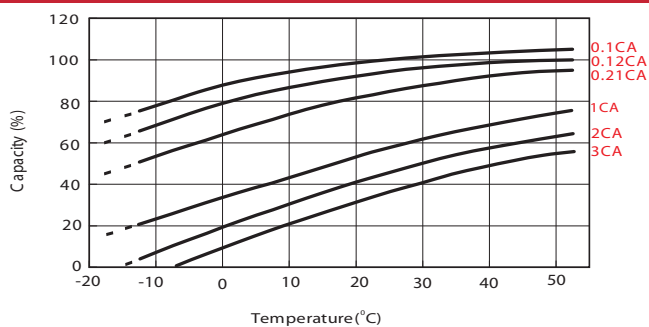
### Discharge Characteristics



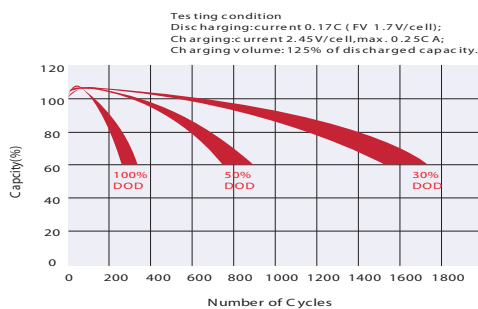
### Float Charging Characteristics



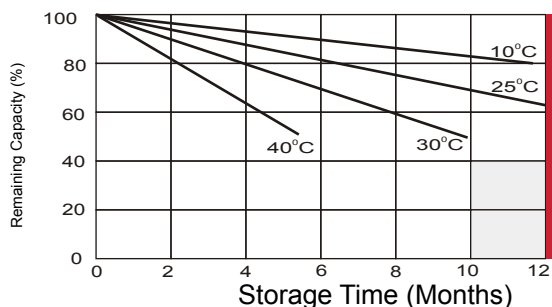
### Temperature Effects in Relation to Battery Capacity



### Effect of Temperature on Long Term Float Life



### Self Discharge Characteristics



**A**

No supplementary required  
(Carryout 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 limited current 0.25CA and constant voltage 2.25V/cell.  
 2. Charged for above 20 hours at limited current 0.25CA and constant voltage 2.25V/cell.  
 3. Charged for 8 ~ 10 hours at limited current 0.05 CA.

**C**

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

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