



**CDC-12**

Awaiting Image

**Physical Specification**

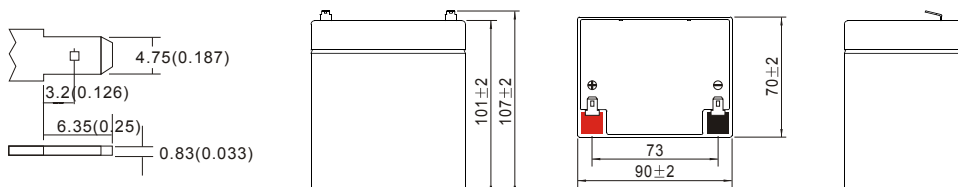
Part Number:	<b>CDC5-12</b>
Length:	<b>90 ± 2 mm (3.54 inches)</b>
Width:	<b>70 ± 2 mm (2.76 inches)</b>
Container Height:	<b>101 ± 2 mm (3.98 inches)</b>
Total Height (with terminal):	<b>107 ± 2 mm (4.21 inches)</b>
Approx Weight:	<b>Approx 1.77kg (3.90lbs)</b>

**Specifications**

	Normal Voltage	12V
	Normal Capacity (20HR)	5.6AH
<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>	5.60 AH/0.28A	(20hr, 1.80V/cell, 25°C / 77°F)
	5.26 AH/0.526A	(10hr, 1.80V/cell, 25°C / 77°F)
	4.69 AH/0.94A	(5hr, 1.75V/cell, 25°C / 77°F)
	4.30 AH/1.43A	(3hr, 1.75V/cell, 25°C / 77°F)
	3.60 AH/3.60A	(1hr, 1.60V/cell, 25°C / 77°F)
<b>Max Discharge Current</b>	84A (5s)	
<b>Internal Resistance</b>	Approx 25.0mΩ	
<b>Discharge Characteristics</b>	Operating Temp. Range	Discharge: -15 ~ 50°C (5 ~ 122°F)
		Charge: 0 ~ 40°C (5 ~ 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 1.68A.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%		
<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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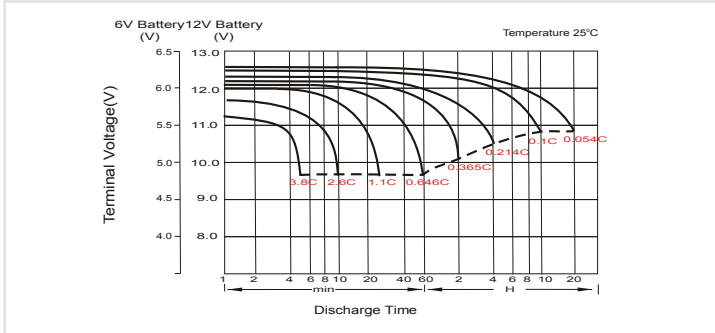
### Constant Current Discharge (Amperes) at 25°C (77°F)

F.V/Time	10 min	15 min	20 min	30 min	45 min	1h	2h	3h	4h	5h	6h	8h	10h	20h
1.85V/cell	8.20	6.90	6.03	4.34	3.45	2.78	1.69	1.31	1.05	0.85	0.74	0.600	0.497	0.277
1.80V/cell	10.48	8.34	7.13	5.12	4.01	3.12	1.85	1.41	1.12	0.91	0.79	0.636	0.526	0.280
1.75V/cell	11.51	9.11	7.67	5.31	4.16	3.26	1.92	1.43	1.15	0.94	0.81	0.647	0.532	0.283
1.70V/cell	12.55	9.72	8.06	5.53	4.32	3.36	1.99	1.47	1.18	0.96	0.83	0.656	0.537	0.288
1.65V/cell	13.54	10.34	8.56	5.83	4.43	3.48	2.05	1.53	1.22	0.99	0.85	0.667	0.548	0.292
1.60V/cell	14.70	11.05	9.12	6.16	4.62	3.60	2.12	1.58	1.26	1.02	0.87	0.673	0.554	0.293

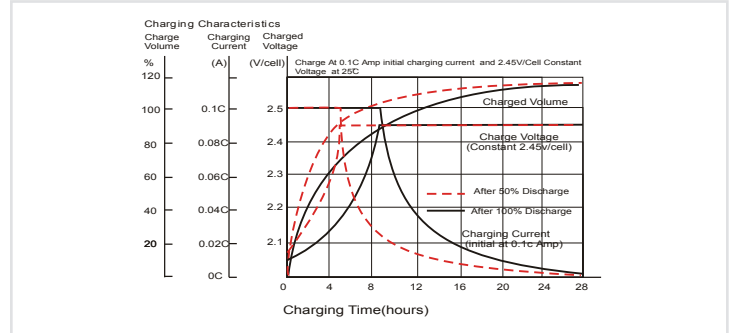
### Constant Power Discharge (Watts) at 25°C (77°F)

F.V/Time	10 min	15 min	20 min	30 min	45 min	1h	2h	3h	4h	5h	6h	8h	10h	20h
1.85V/cell	15.3	13.0	11.5	8.34	6.67	5.40	3.30	2.55	2.06	1.67	1.46	1.187	0.984	0.555
1.80V/cell	19.3	15.5	13.4	9.72	7.69	6.01	3.58	2.73	2.19	1.79	1.56	1.257	1.042	0.560
1.75V/cell	20.9	16.7	14.3	10.0	7.94	6.27	3.70	2.78	2.24	1.83	1.60	1.277	1.052	0.564
1.70V/cell	22.5	17.7	14.9	10.4	8.23	6.45	3.84	2.85	2.29	1.87	1.63	1.294	1.061	0.574
1.65V/cell	24.1	18.8	15.8	10.9	8.41	6.64	3.94	2.96	2.36	1.92	1.66	1.313	1.082	0.581
1.60V/cell	25.7	19.8	16.6	11.4	8.68	6.82	4.04	3.04	2.43	1.98	1.70	1.324	1.093	0.583

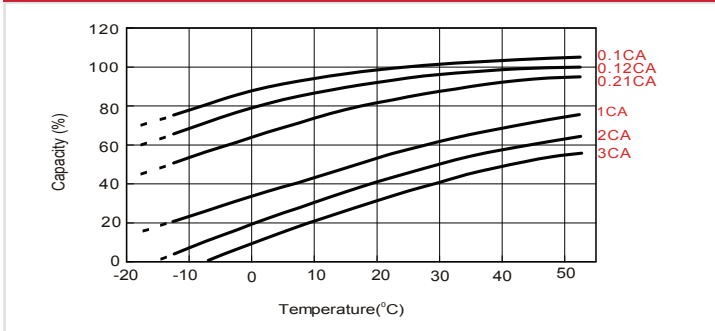
### Discharge Characteristics



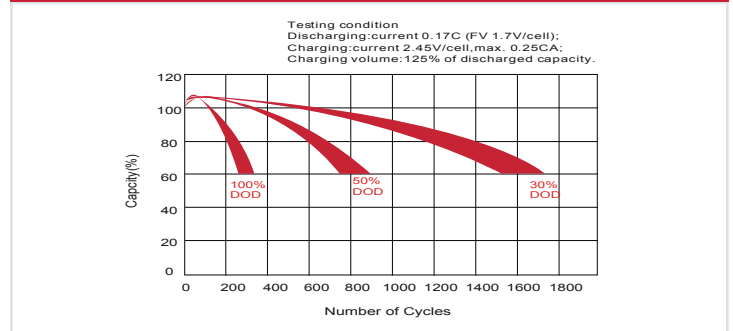
### Charging Characteristics (cycle use)



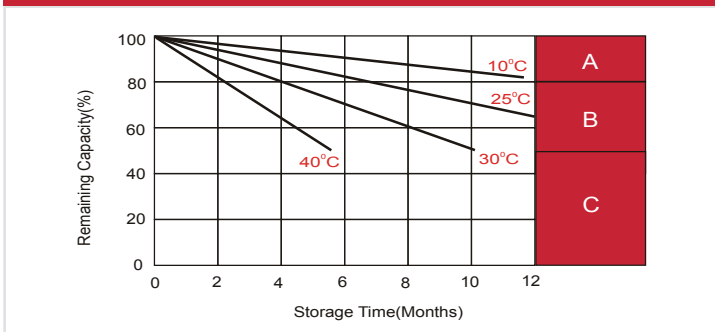
### Temperature Effects in Relation to Battery Capacity



### 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 limited current 0.25CA and constant volatge 2.25V/cell.  
2. Charged for above 20hours at limited current 0.25CA and constant volatge 2.45V/cell.  
3. Charged for 8~10hours at limited current 0.05CA .
- 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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