

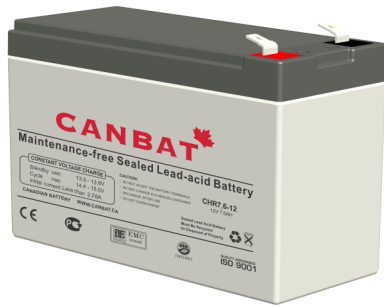
CHR7.6-12

12V 7.6AH

High Rated



CHR7.6-12



Physical Specification

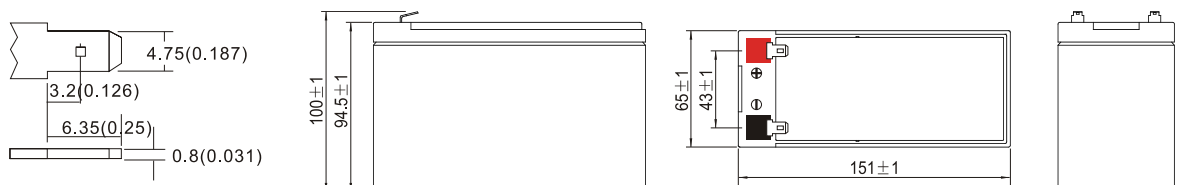
Part Number	CHR7.6-12
Length	151 ± 2 mm
Width	65 ± 2 mm
Container Height	94.5 ± 2 mm
Total Height (with terminal)	100 ± 2 mm
Approx Weight	Approx 2.50 kg

Specifications

	Nominal Voltage	12V
	Nominal Capacity (10-HR)	7.6AH
Terminal Type	Standard Terminal	T1
Container Material	Standard Option	ABS
	Flame Retardant Option (FR)	ABS (UL94:VO)
Rated Capacity	10hr, 1.80V/cell, 25°C	7.60 AH/0.95A
	5hr, 1.75V/cell, 25°C	6.95 AH/1.39A
	3hr, 1.75V/cell, 25°C	6.30 AH/2.10A
	1hr, 1.60V/cell, 25°C	6.28 AH/6.28A
Current	Max Discharge Current	114A (5s)
	Initial Charging Current	Less than 46.5A
Internal Resistance	Approx 18m Ω	
Discharge Characteristics	Operating Temp. Range	Discharge: -15 ~ 50°C Charge: 0 ~ 40°C Storage: -15 ~ 40°C
	Nominal Operating Temp. Range	25 ± 3°C
	Cycle Use	Initial Charging Current less than 2.28A. Voltage 14.4V ~ 15.0V Temp. Coefficient -30mV/°C
	Standby Use	No limit on Initial Charging Current Voltage 13.5V ~ 13.8V Temp. Coefficient -20mV/°C
	Capacity affect by Temperature	40°C 103% 25°C 100% 0°C 86%
Design Floating Life at 20°C	12+ Years	
Self Discharge	Canbat batteries may be stored for up to 6 months at 25°C(77°F) and then a refresh charge is required. For higher temperatures the time interval will be shorter.	

Dimensions

T1 Terminal



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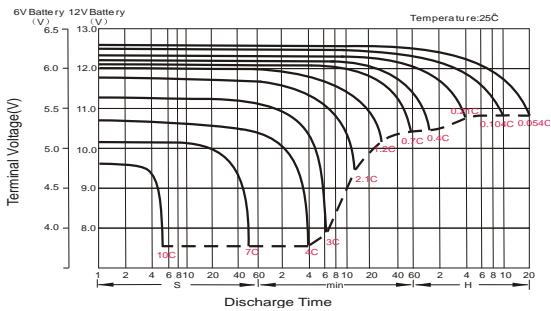
Constant Power Discharge Characteristics at 25°C /77°F, Unit: W

F.V/ Time	5min	10min	15min	20min	30min	45min	1h	2h	3h	4h	5h	6h	8h	10h	20h
1.85V/cell	26.6	16.9	13.3	11.2	8.68	6.36	5.08	2.79	1.91	1.51	1.28	1.10	0.92	0.765	0.426
1.80V/cell	31.0	19.1	14.6	12.0	9.31	6.92	5.43	2.93	2.02	1.58	1.33	1.16	0.95	0.786	0.430
1.75V/cell	35.0	21.0	15.9	12.9	9.70	7.19	5.67	3.04	2.10	1.65	1.39	1.19	0.97	0.802	0.434
1.70V/cell	38.5	22.9	17.0	13.6	10.1	7.47	5.86	3.16	2.15	1.69	1.42	1.22	1.00	0.811	0.442
1.67V/cell	42.5	24.7	18.1	14.5	10.6	7.66	6.05	3.25	2.25	1.75	1.45	1.25	1.02	0.827	0.448
1.60V/cell	46.9	26.4	19.0	15.4	11.3	7.98	6.28	3.36	2.32	1.80	1.48	1.27	1.03	0.836	0.450

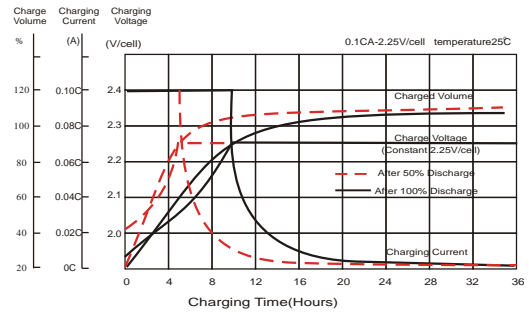
Constant Current Discharge Characteristics at 25°C /77°F, Unit: A

F.V/ Time	5min	10min	15min	20min	30min	45min	1h	2h	3h	4h	5h	6h	8h	10h	20h
1.85V/cell	48.6	31.2	24.7	21.0	16.6	12.2	9.81	5.41	3.76	2.98	2.55	2.19	1.80	1.51	0.847
1.80V/cell	56.1	34.9	26.9	22.3	17.5	13.2	10.4	5.66	3.95	3.10	2.63	2.32	1.85	1.55	0.854
1.75V/cell	62.0	37.7	29.0	23.8	18.0	13.6	10.9	5.84	4.08	3.22	2.73	2.38	1.89	1.58	0.859
1.70V/cell	66.3	40.3	30.6	24.8	18.6	14.1	11.2	6.06	4.19	3.31	2.78	2.43	1.95	1.60	0.876
1.67V/cell	72.2	43.1	32.2	26.2	19.5	14.3	11.4	6.19	4.36	3.40	2.83	2.46	1.97	1.63	0.887
1.60V/cell	77.8	44.8	33.3	27.6	20.5	14.8	11.8	6.37	4.47	3.50	2.90	2.51	1.99	1.64	0.889

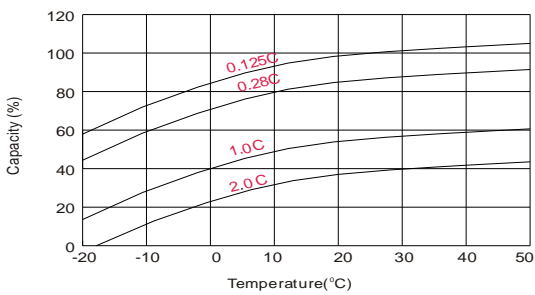
Discharge Characteristics



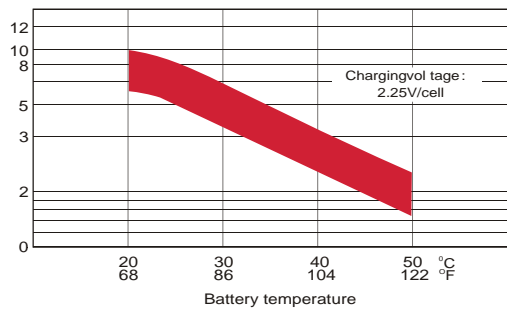
Float Charging Characteristics



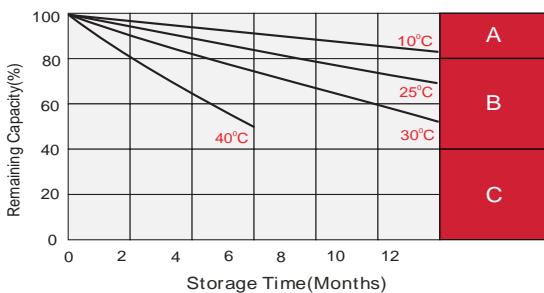
Temperature Effects in Relation to Battery Capacity



Effect of Temperature on Long Term Float Life



Discharge capacity Vs Ambient temperature curve (110A)



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.