

CHR 75-12

12V 75AH

High Rated



CHR75-12

Awaiting Image

Physical Specification

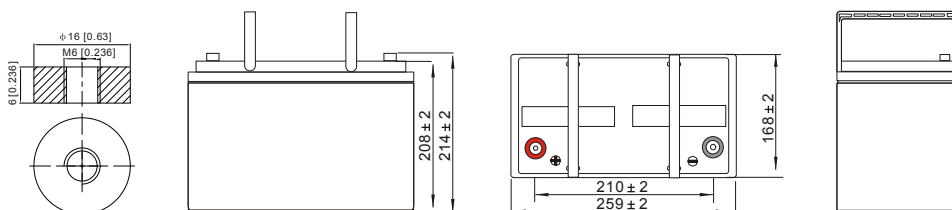
Part Number:	CHR 75-12
Length:	259 ± 2 mm (10.20 inches)
Width:	168 ± 2 mm (6.61 inches)
Container Height:	208 ± 2 mm (8.19 inches)
Total Height (with terminal):	214 ± 2 mm (8.43 inches)
Approx Weight:	Approx 22.3 kg (49.2 lbs)

Specifications

	Normal Voltage	12V
	Normal Capacity (20HR)	75AH
Terminal Type	Standard Terminal	T6
	Optional Terminal	T9
Container Material	Standard Option	ABS
	Flame Retardant Option (FR)	ABS(UL94:VO)
Rated Capacity	74.4 AH/7.44A	(10hr, 1.80V/cell, 25°C / 77°F)
	72.0 AH/9.00A	(8hr, 1.80V/cell, 25°C / 77°F)
	65.5 AH/13.1A	(5hr, 1.75V/cell, 25°C / 77°F)
	56.7 AH/18.9A	(3hr, 1.75V/cell, 25°C / 77°F)
	46.2 AH/46.2A	(1hr, 1.60V/cell, 25°C / 77°F)
Max Discharge Current	864A (5s)	
Internal Resistance	Approx 6.6mΩ	
Discharge Characteristics	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 21.6A. 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%	
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

T6 Terminal



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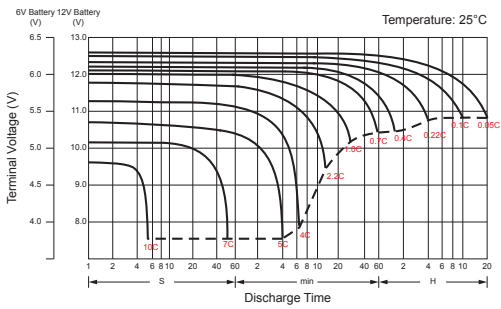
Constant Power Discharge Characteristics at 25°C /77°F, Unit: W

F.V (V/Cell)	5 min	10 min	15 min	20 min	30 min	45 min	1h	2h	3h	4h	5h	6h	8h	10h	20h
1.85V/cell	123.9	105.8	89.6	76.5	59.1	44.8	36.3	22.9	17.5	14.3	12.2	10.7	8.6	7.18	3.81
1.80V/cell	162.7	129.0	104.4	87.0	65.2	48.4	39.4	24.2	18.3	15.0	12.8	11.2	8.9	7.44	3.87
1.75V/cell	181.3	140.2	113.3	93.1	69.2	51.1	41.1	25.1	18.9	15.4	13.1	11.4	9.1	7.51	3.94
1.70V/cell	196.9	150.0	120.7	98.1	72.9	53.6	42.7	25.8	19.3	15.8	13.3	11.6	9.2	7.59	3.97
1.67V/cell	217.6	163.4	129.2	104.8	76.4	55.7	44.2	26.5	19.9	16.1	13.6	11.8	9.3	7.69	4.01
1.60V/cell	229.4	172.3	136.0	109.4	79.5	57.8	46.2	27.3	20.5	16.5	13.9	12.0	9.4	7.77	4.05

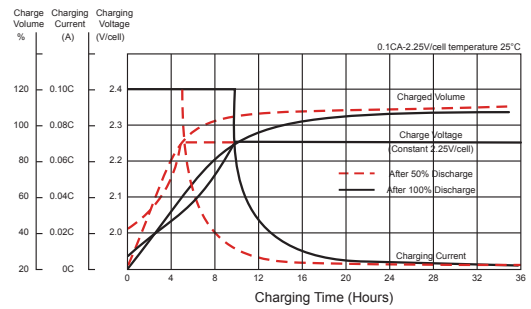
Constant Current Discharge Characteristics at 25°C /77°F, Unit: A

F.V (V/Cell)	5 min	10 min	15 min	20 min	30 min	45 min	1h	2h	3h	4h	5h	6h	8h	10h	20h
1.85V/cell	232.4	200.5	171.4	147.4	114.7	87.5	71.2	45.1	34.5	28.4	24.4	21.3	17.3	14.4	7.66
1.80V/cell	302.5	242.7	198.4	166.7	125.9	94.1	77.0	47.5	36.1	29.7	25.4	22.2	17.8	14.9	7.75
1.75V/cell	333.9	261.7	214.0	177.6	133.1	99.0	80.1	49.1	37.2	30.4	25.9	22.6	18.1	15.0	7.85
1.70V/cell	357.4	276.3	225.3	185.3	139.0	102.9	82.5	50.1	37.7	30.8	26.1	22.8	18.2	15.0	7.86
1.67V/cell	388.6	296.4	237.7	195.4	144.1	106.0	84.6	51.1	38.5	31.3	26.4	23.0	18.3	15.1	7.88
1.60V/cell	400.0	305.9	245.3	199.9	147.0	108.1	87.1	51.9	39.1	31.6	26.6	23.2	18.2	15.0	7.85

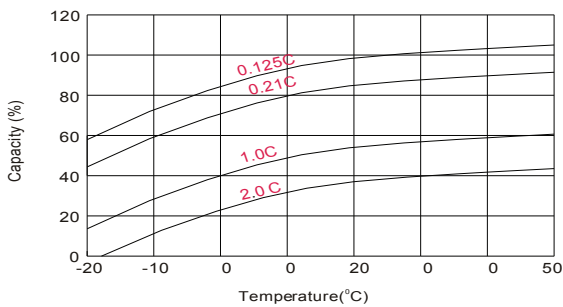
Discharge Characteristics



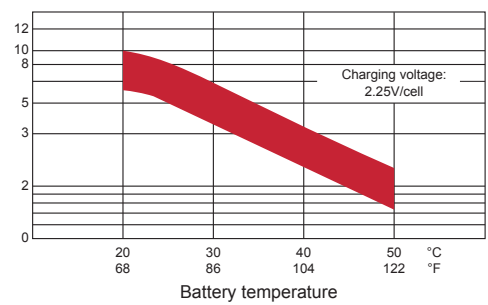
Float Charging Characteristics



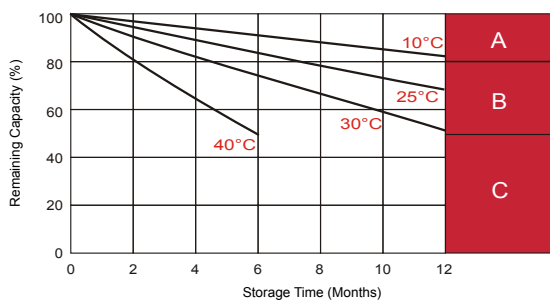
Temperature Effects in Relation to Battery Capacity



Effect of Temperature on Long Term Float Life



Self Discharge Characteristics



- A** No supplementary 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 voltage 2.25V/cell.
2. Charged for above 20 hours at limited current 0.25CA and constant voltage 2.45V/cell.
3. Charged for 8~10 hours 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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