

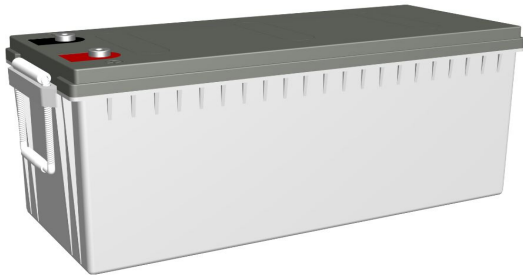
# CHR 225-12

12V 225AH

High Rated



## CHR 225-12



## Physical Specification

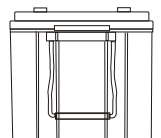
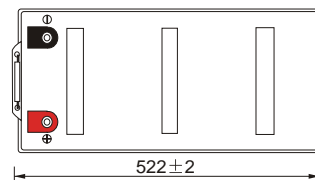
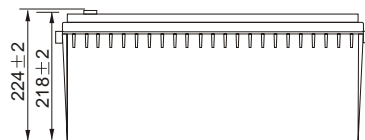
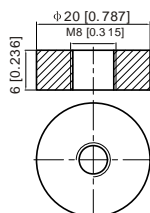
Part Number	CHR 225-12
Length	522 ± 2 mm
Width	240 ± 2 mm
Container Height	218 ± 2 mm
Total Height (with terminal)	224 ± 2 mm
Approx Weight	Approx 64.82 kg

## Specifications

	Nominal Voltage	12V
	Nominal Capacity (10HR)	225AH
Terminal Type	Standard Terminal	T11
	Optional Terminal	-
Container Material	Standard Option	ABS
	Flame Retardant Option (FR)	ABS (UL94:VO)
Rated Capacity	(10hr, 22.5A, 1.80V/cell)	225.0Ah
	(8hr, 27.0A, 1.80V/cell)	216.0 Ah
	(5hr, 39.4A, 1.75V/cell)	197.0 Ah
	(3hr, 59.6A, 1.75V/cell)	178.8 Ah
	(1hr, 144.0A, 1.67V/cell)	144.0 Ah
Max Discharge Current	2250A	
Internal Resistance	~2.600mΩ	
Discharge Characteristics	Operating Temp. Range	Discharge: -20 ~ 50°C
		Charge: 0 ~ 40°C
		Storage: -15 ~ 50°C
	Nominal Operating Temp. Range	25 ± 3°C
	Cycle Use	Initial Charging Current less than 56.25A Voltage 14.40V ~ 15.00V at 25°C Temp. Coefficient -30mV/°C
	Standby Use	No limit on Initial Charging Current Voltage 13.50V ~ 13.80V at 25°C 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

### T11 Terminal



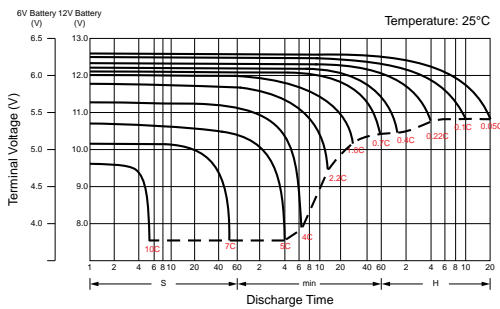
## Constant Current Discharge (Amperes) at 25 °C (77°F)

F.V/Time	5min	10min	15min	20min	30min	45min	1h	1.5h	2h	3h	4h	5h	8h	10h
1.85V/cell	468.3	349.6	291.2	244.7	188.1	140.3	118.6	88.9	71.2	53.7	42.8	35.7	25.2	21.1
1.80V/cell	545.9	412.2	338.6	281.9	212.6	156.9	131.2	97.3	77.4	58.1	46.1	38.5	27.0	22.5
1.75V/cell	595.7	442.0	358.2	295.8	222.2	163.3	136.1	100.6	79.8	59.6	47.3	39.4	27.5	22.8
1.70V/cell	645.2	471.4	378.5	311.3	232.0	169.5	141.1	104.0	82.4	61.4	48.4	40.3	28.0	23.2
1.67V/cell	673.6	488.7	390.5	320.1	237.9	173.3	144.0	105.8	83.7	62.3	49.1	40.8	28.3	23.4
1.60V/cell	742.5	528.8	418.5	340.9	251.3	182.3	151.0	110.5	87.2	64.6	50.7	42.0	28.9	23.9

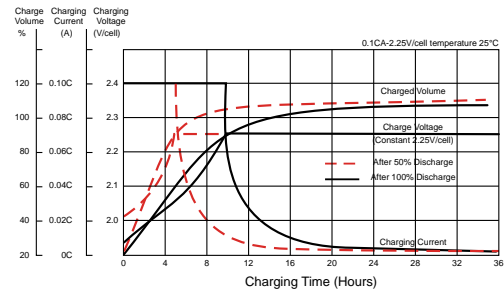
## Constant Power Discharge (Watts/cell) at 25 °C (77°F)

F.V/Time	5min	10min	15min	20min	30min	45min	1h	1.5h	2h	3h	4h	5h	8h	10h
1.85V/cell	917.7	644.2	602.7	548.3	410.1	302.3	232.3	174.8	139.3	105.5	87.0	74.2	52.7	44.0
1.80V/cell	1037.2	727.6	649.5	583.5	435.1	317.8	244.8	182.3	146.3	109.8	90.3	76.8	53.8	45.0
1.75V/cell	1117.8	797.5	701.7	621.3	461.5	336.2	258.8	192.2	152.4	113.9	93.3	79.1	54.7	45.4
1.70V/cell	1188.0	849.9	739.5	647.5	485.3	352.9	267.7	198.5	157.3	116.8	95.4	80.5	55.3	45.7
1.67V/cell	1231.7	900.6	765.0	672.5	502.4	362.9	275.8	204.1	161.4	119.8	97.1	81.5	55.8	46.1
1.60V/cell	1249.3	948.5	796.4	686.9	515.4	370.8	282.1	208.2	164.4	120.9	98.0	82.7	56.4	46.7

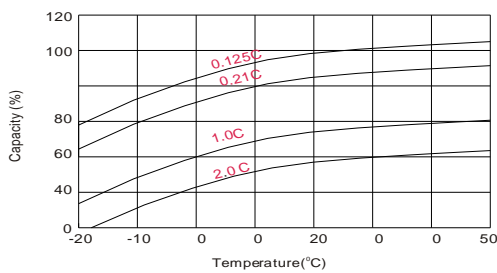
### Discharge Characteristics



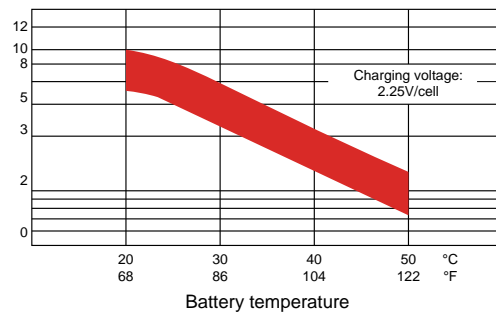
### Float Charging Characteristics



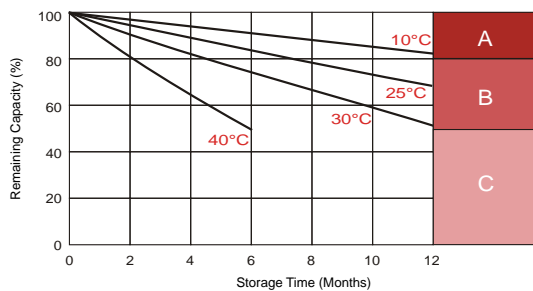
### Temperature Effects in Relation to Battery Capacity



### 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.