

CHR40-12

12V 40AH

High Rated



CHR40-12



Physical Specification

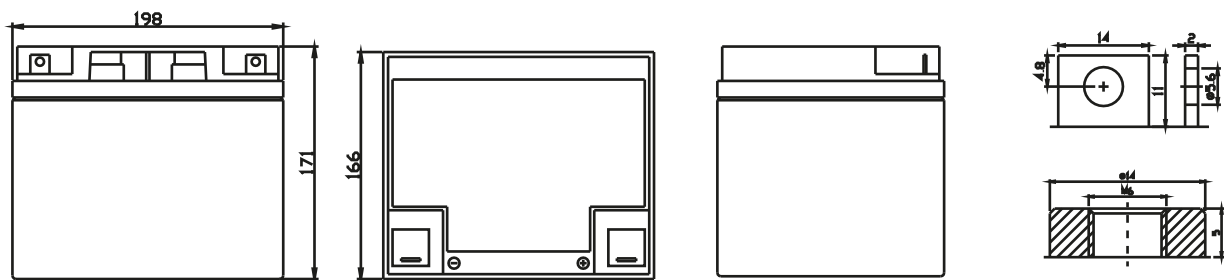
Part Number	CHR40-12
Length	198 ± 2 mm
Width	166 ± 2 mm
Container Height	171 ± 2 mm
Total Height (with terminal)	171 ± 2 mm
Approx Weight	13.2 kg

Specifications

	Nominal Voltage	12V
	Nominal Capacity	40AH
Terminal Type	Standard Terminal	T3
Container Material	Standard Option	ABS
Rated Capacity	150W@15min-rate to 1.67V per cell @25 C	
Max Discharge Current	400A (5sec)	
Internal Resistance	Approx 7.5m Ω	
	Recommended Maximum Charging Current	12
	Equalisation and Cycle Service	14.60 ~ 14.80 at 25°C at 20°C Temp.
Discharge Characteristics	Operating Temp. Range	Discharge: -20°C~60°C
		Charge: 0°C~50°C
		Storage: -20°C~60°C
	Nominal Operating Temp. Range	25±5°C
	Cycle Use	14.60 ~ 14.80 at 25°C Temp.
	Standby Use	No limit on Initial Charging Current Voltage 13.60 ~ 13.80 at 25°C Temp.
	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

T3 Terminal



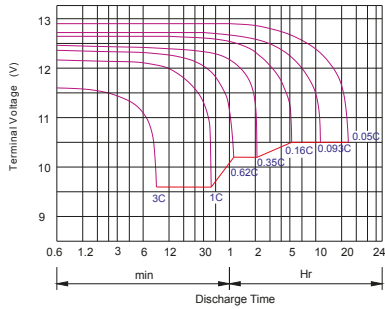
Constant Current Discharge (Amperes) at 25°C

F.V/Time	5MIN	8MIN	10MIN	15MIN	20MIN	30MIN	60MIN	90MIN
9.60V	151.4	124.2	112.3	82.42	66.13	47.25	26.46	21.10
10.0V	147.1	117.7	111.73	80.50	62.28	45.50	25.94	20.37
10.2V	142.7	114.9	105.80	77.34	60.62	44.73	25.50	20.01
10.5V	128.1	110.6	96.66	73.40	57.70	43.08	24.90	19.63
10.8V	115.7	106.2	86.55	70.10	55.87	41.30	24.31	19.29
11.1V	98.7	97.78	79.64	66.80	53.86	39.92	23.57	18.52

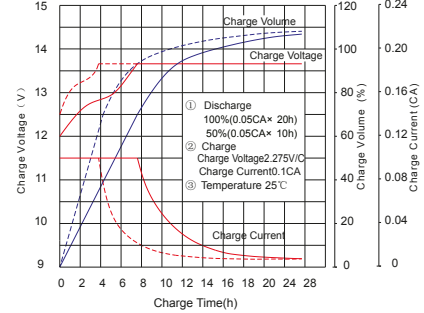
Constant Power Discharge (Watts) at 25°C

F.V/Time	5MIN	8MIN	10MIN	15MIN	20MIN	30MIN	60MIN	90MIN
9.60V	1598	1318	1248	959.9	730.1	527.2	295.9	236.1
10.0V	1566	1266	1239	943.1	694.6	512.5	289.5	229.2
10.2V	1548	1232	1182	915.3	681.1	504.9	287.3	226.8
10.5V	1409	1205	1100	886.8	656.6	492.9	285.8	225.5
10.8V	1284	1156	1078.8	849.6	636.5	476.5	280.9	223.8
11.1V	1128	1095	1057.5	812.3	622.2	462.2	275.8	217.1

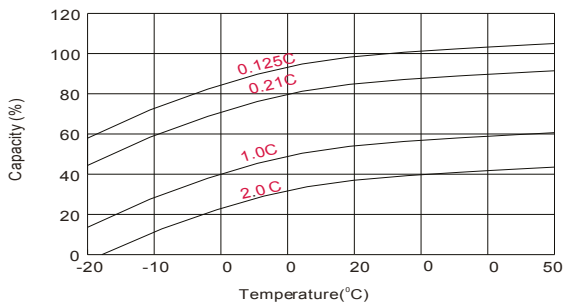
Discharge Characteristics



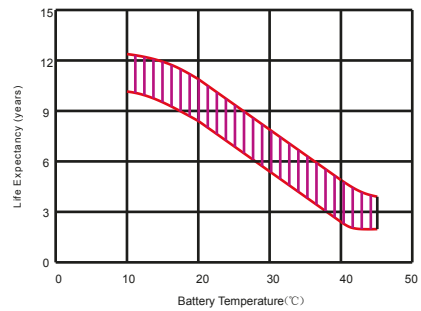
Float Charging Characteristics



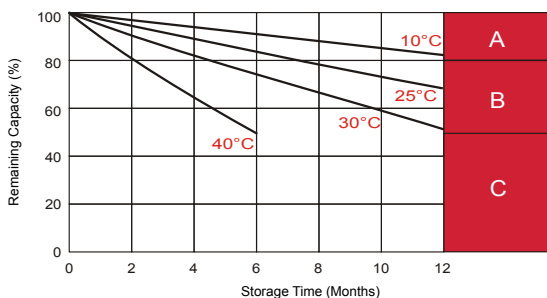
Temperature Effects in Relation to Battery Capacity



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.