

Green Cell

GC AA Batteries

Product card



General:

Model:	GR02, GR06
Type designation:	HR6 20L
Chemical system:	Ni / KOH-H ₂ O / MH
Nominal voltage:	1.2 V
Weight:	26.5 g
Norminal Capacity:	2000mAh

Electrical Characteristics:

Unless otherwise stated, all measurements are to be performed at a **Standard Environment** of

20 ±5°C

55 ±20% RH.

All samples are normalized for 8 hours at least at the above environment prior to measurement. The digital voltmeter (DCM) is with the precision of 1mV (internal resistance not less than 1 Megohm).

Notes: Standard Charge/Discharge Condition:

Charge: 0.1C₅ mA × 16hrs
e.g. HR6 20:

Discharge: 0.2C₅ mA to 1.0V/cell

Charge: 200mA × 16hrs

Discharge: 400mA to 1.0V/cell

Performance:

Test	Unit	Specification	Condition
Open Circuit Voltage (OCV)	V	≥ 1.25	Within 1hr after standard charge

Service Performance:

Test	Unit	Specification	Condition
Standard Discharge ($0.2C_5$)	minute	≥ 300	Standard Charge, 1hr rest before discharge
High Rate Discharge ($1C_5$)	minute	≥ 48	Standard Charge, 1hr rest before discharge
Charge Retention	mAh	≥ 1600 ($80\%C_5$)	Standard charge Storage 28 days at 20°C Standard discharge
IEC Cycles Test	Cycle	≥ 500	IEC 61951-2

Warranty:

1 year limited warranty against manufacture and material defects.

Caution:

1. Batteries should be charged prior to use.
2. Do not subject batteries to adverse condition such as extreme temperature, deep cycling and excessive over charge/over discharge.
3. Avoid batteries being used in an airtight compartment. Ventilation should be provided inside the battery compartment, otherwise batteries may generate hydrogen gas, which could cause an explosion if exposed to an ignition source
4. Do not attempt to take batteries apart or subject them to pressure or impact. Heat may be generated or fire may result. The alkaline electrolyte is harmful to eyes and skin, and it may damage clothing upon contact.
5. Keep away from children. If swallowed, contact a physician at once.
6. Do not short circuit batteries, permanent damage to batteries may result
7. Do not incinerate or mutilates batteries, may burst or release toxic material.
8. Do not solder directly to cells or batteries.
9. Store batteries in a cool dry place.
10. If find any noise, excessive temperature or leakage from a battery, please stop its use.
11. When using a new battery for the first time or after long term storage, please fully charge the battery before use

12. When using a new battery in use with semi-used batteries, over-discharge may occur.
13. Do not mix new batteries in use with semi-used batteries, over-discharge may occur.
14. When connecting a battery pack to a charger, ensure correct polarity.
15. When the battery is hot, please do not touch it and handle it, until it has cooled down.
16. Do not remove the outer sleeve from a battery pack nor cut into its housing.
17. When find battery power down during use, please switch off the device to avoid over discharge.
18. Unplug a battery by holding the connector itself and not by pulling at its cord.
19. After use, if the battery is hot, before recharging it, cool it in a well-ventilated place out of direct sunlight.
20. Never put a battery into water or seawater.

Notes:

1. Ta: Ambient Temperature.
2. Approximate charge time from discharged rate, for reference only.
3. IEC61951-2 Cycle Life Test:

Cycle No.	Charge	Rest	Discharge
1	0.1 C ₅ ×16hrs	none	0.25 C ₅ ×2hrs20mins
2-48	0.25 C ₅ ×3hrs10mins	none	0.25 C ₅ ×2hrs20mins
49	0.25 C ₅ ×3hrs10mins	none	0.25 C ₅ to 1.0V/cell
50	0.1 C ₅ ×16hrs	1-4hr(s)	0.2 C ₅ to 1.0V/cell

Cycle 1 to 50 shall be repeated until the discharges duration on any 50th cycle becomes less than 3hrs.