

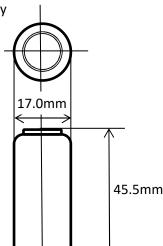
CR-AGC22N

CR Cylindrical Lithium Primary Battery

Features & Benefits

- Long Life, High-Rate CR-AG Cylindrical Cell
- Lithium Metal Chemistry for High-Capacity •
- Spiral Design for High-Rate/Pulse Discharge •
- Solder Leads for Easy Connection and Replacement •
- PTC for Increased Safety





See specific dimensions attached.

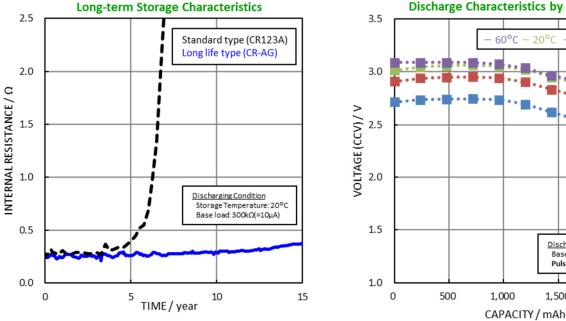
Applications

Suitable for infrastructure devices requiring reliable, longlife power; Smoke and Carbon Monoxide Detectors, Gas and Water Meters, Security Devices, iBeacons, IoT/Sensing Devices, etc...

Part number	CR-AGC22N			
Nominal Voltag	3V			
Nominal Capac	2400 mAh			
Continuous dra	2.5mA			
Dimensions ^{*1}	Diameter(Max.)	17.0mm		
Dimensions -	Height(Max.)	45.5mm		
Weight ^{*1}	Approx. 22.0g			
Operating Tem	-40°C ∼ +85°C*2			

*1 Without leads

*2 Please consult Panasonic when anticipating usage with operating temperatures exceeding 70°C.



Discharge Characteristics by Temperature

·30°

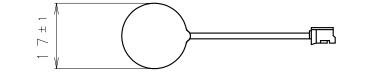
Discharging Condition Base load: 300kΩ(=10µA) Pulse: 50mA-1s

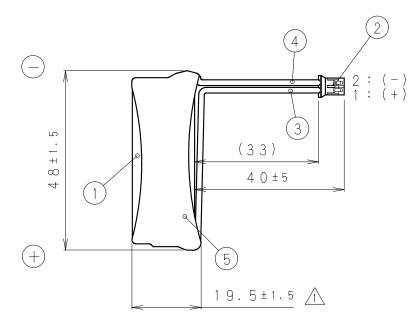
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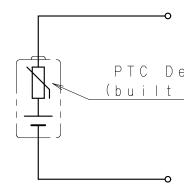
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The data in this document is for descriptive purposes only and is not intended to make or imply any guarantee or warranty. The contents of this datasheet are subject to change without notice. October 2020

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(2)	CONNECTOR	JST				
Ŭ	HOUSING	P H R - 2				
	TERMINAL	SPH-002T-PO.5S : TIN PLATING				
3	(+) LEAD WIRE	UL AWM3385 AWG24 : RED				
4	(-) LEAD WIRE	UL AWM3385 AWG24 : WHITE				
5	OUTER TUBE	HEAT SHRINKABLE TUBE : TRANSPARENT				

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Panasonic Energy Co., Ltd.



Precautions for use

 The battery shall not be stored at temperatures in excess of 45°C. Storage at less than 35°C is recommended. Storage at less than -20°C can deform the plastic parts and may cause leakage. To prevent self-discharge caused by corrosion or decrease of insulation, humidity during storage shall be less than 70%RH.

Do not expose batteries to direct sunlight or moisture in order to prevent deterioration of performance.

- 2) The battery has an explosion resistant construction. But the following cautions should be taken, because combustible materials such as Lithium metal and organic electrolyte are contained in the battery.
 - * Do not use except in applicable model or equipment.
 - * Do not connect other cell in series.
 - * Do not mix new (fresh) and old (end of life) batteries.
 - * Do not force-discharge.
 - * Do not mix different types (chemistries) of batteries.
 - * Do not short circuit.
 - * Do not dispose in fire.
 - * Do not charge.
 - * Do not disassemble.
 - * Do not heat up more than 100°C.
 - * Do not solder directly onto batteries.
 - * Do not soak in water.
 - * Do not deform.
 - * Do not inadequately modify and remodel for installation.
 - * Insert the batteries in correct polarity position.
- 3) Keep away from heat source or flame.
- 4) Do not wash by ultrasonic wave washer.
- 5) Keep away from children and infants to prevent the possibility of swallowing by mistake.



Panasonic Corporation of North America

Panasonic Industrial Devices Sales America (PIDSA)

Battery Safety Practices

Avoiding hazards in lithium battery handling



Mishandling batteries can cause battery leakage, heat generation, rupture, ignition etc., that can lead to possible fire or injury.

Both of coin type and cylinder type of lithium batteries contain flammable materials such as lithium, organic solvent and other chemical ingredients. Improper handling of lithium batteries may result in heat generation, fire or explosion, with a risk of personal injury or damage. To prevent these accidents in battery handling, be sure to observe the following precautions.

1) Do not Short circuit

Direct connection of plus (+) and minus (-) poles may result in leakage, heat generation, explosion and/or fire. Do not store and/or carry batteries with metallic product such as necklace. (Refer fig.1)

2) Do not stack and/or jumble batteries Stacked and/or jumbled batteries may cause short circuit and/or forced discharge by the contact of other batteries. This may result in leakage, heat generation, explosion and/or fire. Especially, a connection with the 006P(9V) type batteries may have a high risk of leakage, heat generation, explosion and/or fire.

(Refer fig.2 & 3)

3) Do not make forced discharge batteries

Forced discharge by external power source, the battery voltage goes to negative and this cause gas generation in inside of the battery. This may result in leakage, heat generation, explosion and/or fire.

(Referfig.3)

*In your disposal and/or storage of the batteries, please isolate plus and minus poles by adhesive tape. A connection with other metals and/or batteries may result in leakage, heat generation, explosion and/or fire.

*When using the stored battery, please remove the tape perfectly to avoid high contact resistance problem.

(Referfig.4)

4) Do not dispose of batteries in fire

Disposal of batteries in fire is extremely dangerous with a risk of explosion and violent flaring.

5) Do not heat batteries

Heating batteries above 100°C (212°F) may damage the resin in crimping, separator and other parts, causing electrolyte leak, internal short circuit, fire and explosion.

6) Do not solder directly onto batteries

Direct soldering onto batteries may damage the resin in crimping, separator and other parts, causing electrolyte leak, internal short circuit, fire and explosion.

7) Do not charge batteries

Charging of primary batteries may result internal gas generation, causing electrolyte leak, battery swelling, fire and explosion.

8) Do not disassemble batteries

Disassembly batteries may cause gas generation that may irritate your throat. Lithium may also react with moisture to generate heat and fire.

9) Do not deform batteries

Applying extreme pressure to batteries may cause deformation of the crimping and internal short circuit, causing electrolyte leak, battery swelling, fire and explosion.

10) Do not mix different type batteries

For some applications, mixing of different type batteries, or new and old batteries, can cause over discharge due to differences in voltage and discharge capacities. This may lead to the risk of swelling and/or explosion.

11) Do not insert batteries with opposite polarity

For some applications, battery insertion with opposite polarity (reverse insertion of plus and minus) may result in leakage, heat generation, explosion and/or fire.

Please ensure the above precautions are strictly observed by related divisions including production departments, sales departments and external subcontractors. For additional details and information, please contact our sales representatives.

