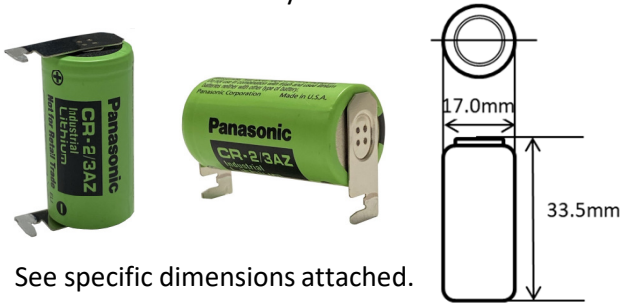


Features & Benefits

- Long Life CR-2/3AZ Cylindrical Cell
- Lithium Metal Chemistry for High-Capacity
- Spiral Design for High-Rate/Pulse Discharge
- Solder Tabs for Solid Connections
- PTC for Increased Safety



See specific dimensions attached.

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

Applications

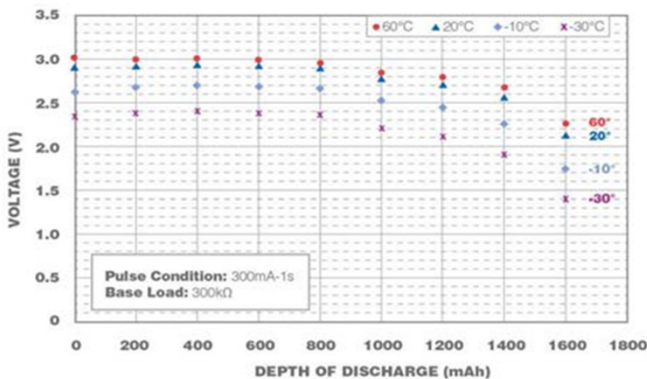
Suitable for infrastructure devices requiring reliable, long life power; Smoke and Carbon Monoxide Detectors, Gas and Water Meters, Security Devices, iBeacons, IoT/Sensing Devices, etc...

Part number	CR-2/3AZE27N	
Nominal voltage	3V	
Nominal capacity	1,600mAh	
Continuous drain	2.5mA	
Dimensions*1	Diameter (Max.)	17.0mm
	Height (Max.)	33.5mm
Weight*1	Approx. 16.0g	
Operating temperature*2	-40°C to +85°C	

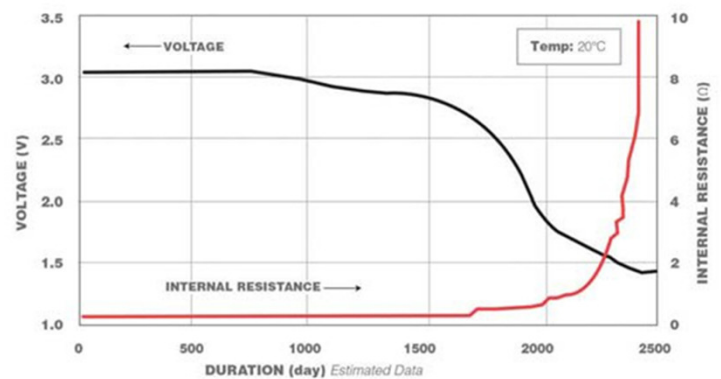
*1 Without tabs.

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

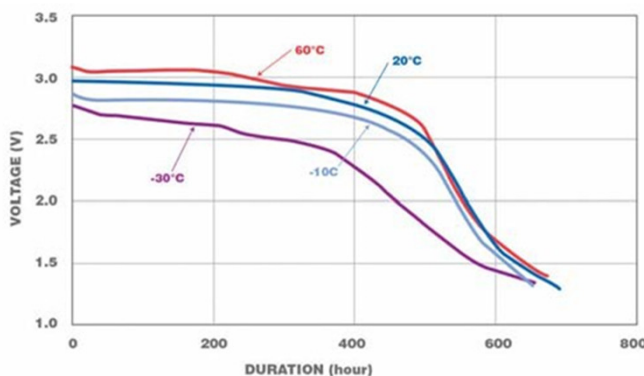
Pulse Discharge Characteristics



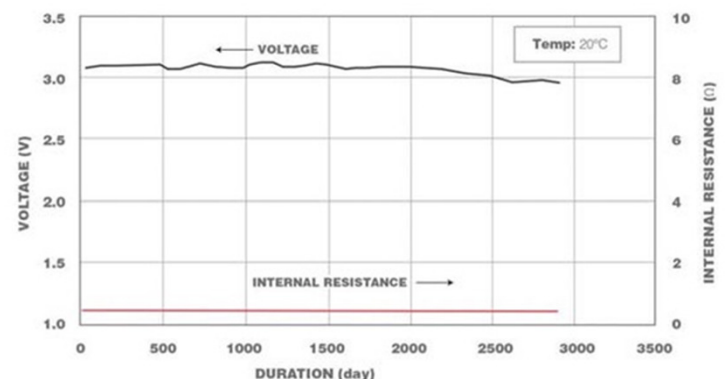
Long-Term Storage Characteristics (100 kOhm, without wakeup pulse)



Discharge Characteristics by Temperature (1kOhm)



Long-term Storage Characteristics(300kΩ, without wake-up pulse)



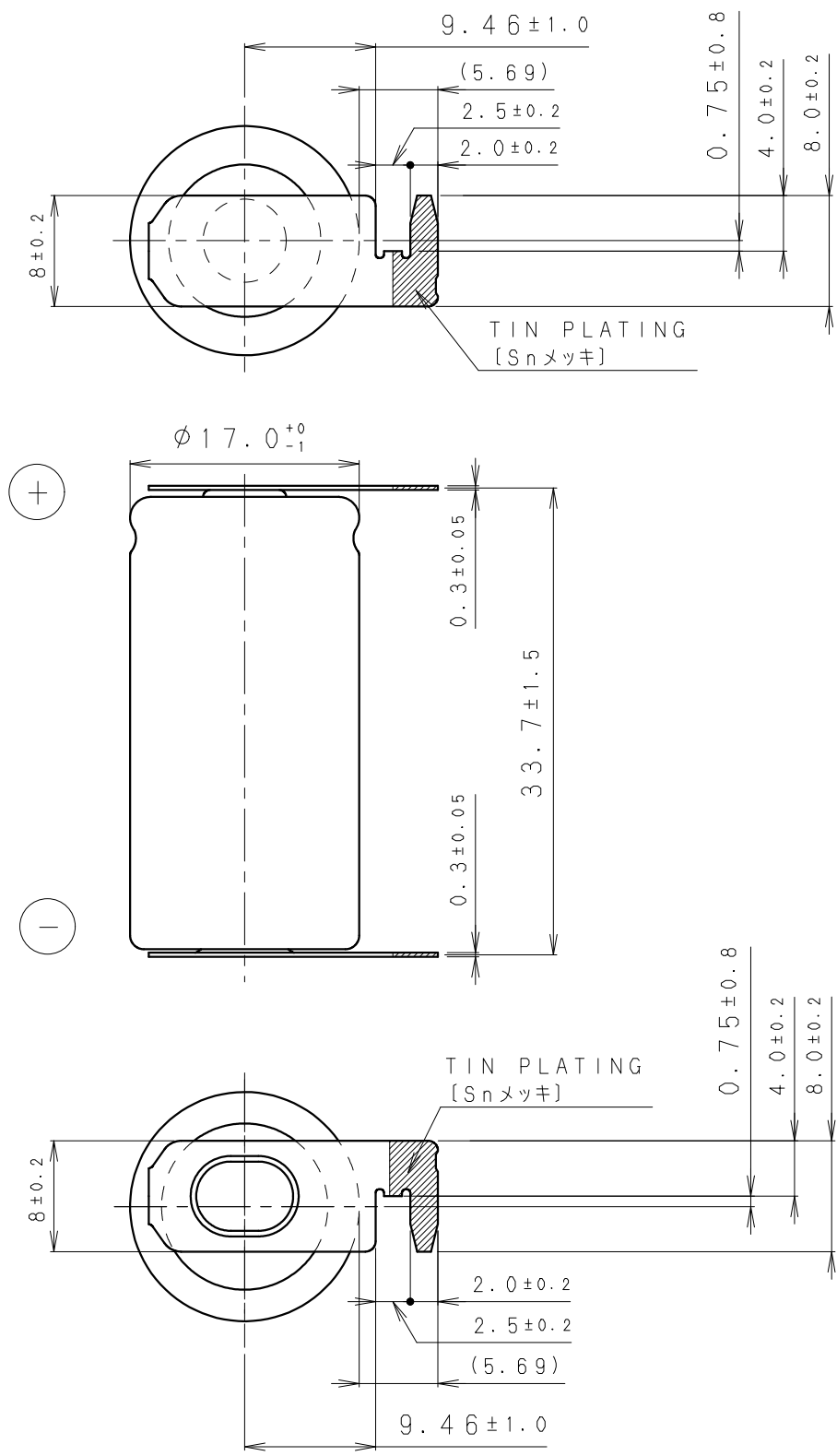
Panasonic Corporation

oembatteries@us.panasonic.com

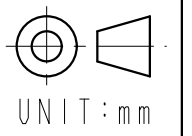
(877) 226-7224

<https://industrial.panasonic.com/ww/products/batteries/primary-batteries/lithium-batteries/lineup>

SYMBOL	DATE	REVISION	SIGNED	CHECKED



- NOTE [注記]
- NOMINAL VOLTAGE: 3V [公称電圧: 3V]
 - TAB WELDING STRENGTH OVER 30N [端子溶接強度: 30N以上]
 - TAB MATERIAL: STAINLESS STEEL WITH TIN PLATING [端子材料: 基材 ステンレス/表面 部分Snメッキ]
 - (): REFERENCE DIMENSION AND ANGLE [() 寸法、角度は参考値]



UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN TOLERANCES ON 'STANDARD TOLERANCE'	NOMINAL SIZE		STANDARD TOLERANCE		PRODUCT NO.	NAME	
	≤ 6		± 0.2				CR-2/3AZE27N
	$6 < \sim \leq 30$		± 0.5				
	$30 < \sim \leq 120$		± 0.8				
	NOMINAL ANGLE		$\pm 5^\circ$				
SCALE	DESIGNED	DRAWN	CHECKED	CHECKED	APPROVED	DRAWING NO.	REV.
2:1	若林 Aug. 28, 2020	若林 Aug. 28, 2020	石丸	山本	山下藤	PD-CR-2/3AZE27N	0

Precautions for use

- 1) 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.

Battery Safety Practices

Avoiding hazards in lithium battery handling

 **Warning** 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

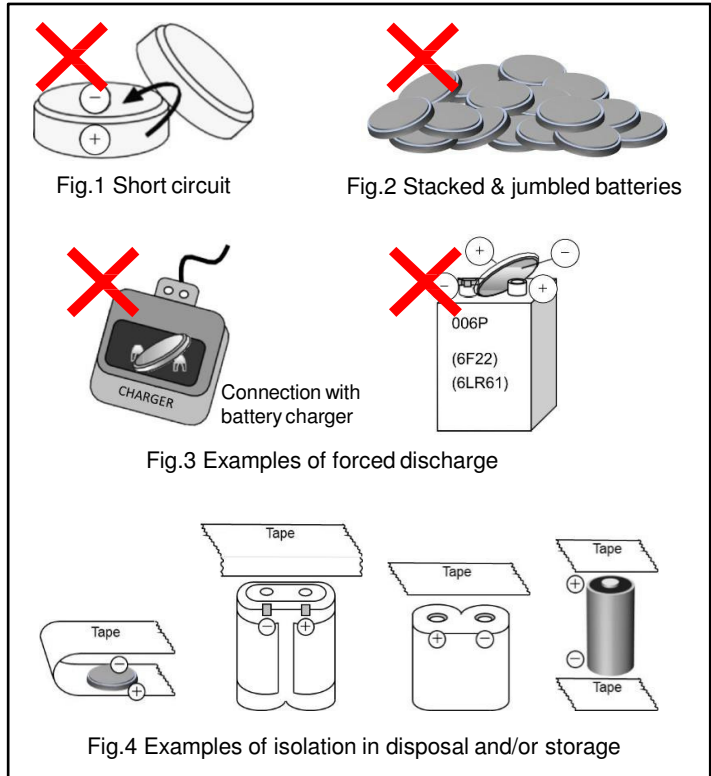
Forced discharge by external power source, the battery voltage goes to negative and this cause gas generation in inside of the battery. This may result in leakage, heat generation, explosion and/or fire.

(Refer fig.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.

(Refer fig.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.