Panasonic

BATTERIES FOR SMART METERING APPLICATIONS

Applications: heat cost allocators, electricity, gas and water meters

To ensure trouble-free data security, utility meters need a reliable power source. The battery must function reliably even under widely fluctuating ambient temperatures and must also be designed for a long service life to reduce maintenance costs. In the case of automated meter reading, the battery must also be able to deliver high pulse currents even after long periods.

KEY BENEFITS:

- NO PASSIVATION
- STABLE INTERNAL RESISTANCE
- NO CAPACITOR REQUIRED
- LOW SELF-DISCHARGE
- LARGE TEMPERATURE RANGE

Panasonic is the battery manufacturer with the most diverse product spectrum worldwide and more than 85 years of experience in the production of high-quality industrial batteries.

Our Lithium batteries are ideal for long-term use in applications with different temperature requirements. Due to our time-proven CR technology, which is not affected by passivation, the battery voltage is retained over a period of many years. With a life of more than 10 years, our batteries therefore always deliver reliable power even after long storage.

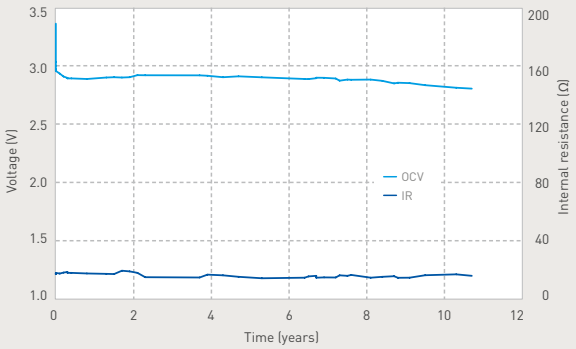
JAPANESE TECHNOLOGY

BATTERIES FOR SMART METERING APPLICATIONS

0134

LITHIUM COIN TYPE BATTERIES
BR-A SERIES

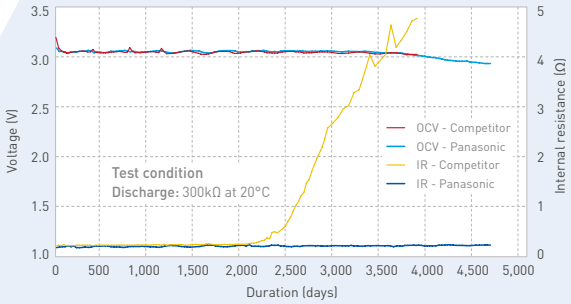
DISCHARGING CHARACTERISTICS BR-2477A



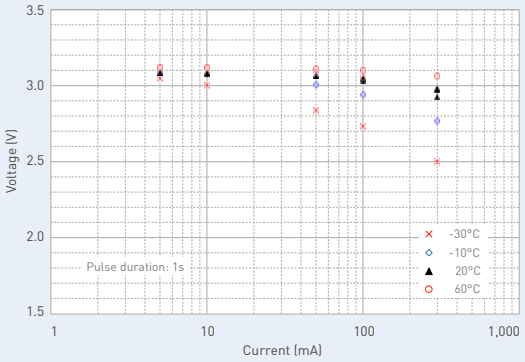
Test condition
Discharge: 300kΩ at 20°C

LITHIUM CYLINDRICAL TYPE BATTERIES
CR SERIES

DISCHARGING CHARACTERISTICS CR-AG



PULSE DISCHARGE CAPABILITY (INITIAL) CR-AG



Panasonic BR-A SERIES

- Ideal for high temperature applications
- Wide temperature range (-40 to 125°C)
- Low self-discharge (<0.5% per year at 20°C)

Panasonic CR SERIES

- Stable internal resistance
- Excellent pulse discharging characteristics
- Wide temperature range (-40 to 70°C)
- Low self-discharge (<1% per year at 20°C)

SUITABLE BATTERIES

Specifications		BR-2477A	CR-2Z	CR-2/3AZ	CR-AG	CR-CZ	CR-AAU
Diameter (mm)		24.5	15.6	17.0	17.0	26.0	14.5
Height (mm)		7.7	27.0	33.5	45.5	50.5	50.5
Approximate weight (g)		8.0	11.0	17.0	24.0	60.0	18.0
Nominal voltage (V)		3.0	3.0	3.0	3.0	3.0	3.0
Nominal capacity (mAh)		1,000	1,000	1,600	2,400	6,500	1,800
Ambient temperature		-40 to 125	-40 to 75	-40 to 70	-40 to 70	-40 to 70	-40 to 85
Applications	Electricity meter	○					
	Gas meter			○	○	○	○
	Water meter		○	○	○	○	○
	Heat cost allocator	○	○	○			

The battery performance is strongly affected by how the batteries are used. The data in this document are for descriptive purposes only and are not intended to make or imply any guarantee or warranty.

For more technical information, please use this email:
battery-solutions@eu.panasonic.com

Panasonic Industry Europe GmbH
Winsbergring 15
22525 Hamburg, Germany
Phone: +49 40 8549-6373

Panasonic®

Printed in Germany 2017

© Panasonic Corporation