

Data sheet

Primary lithium battery

Type 1606-064 or 66-00-200-100

- For MULTICAL® utility meters
- 3.6 V Primary lithium-thionyl chloride (Li-SOCl₂)
- High energy
- D-size bobbin cell
- High voltage response, stable during most of the lifetime of the application
- Low self-discharge rate (less than 1 % after 1 year of storage at + 20 °C)



MID-2004/22/EC



EN 1434

Key features

- Stainless steel container
- Hermetic glass-to-metasealing
- Built-in safety vent
- Non-flammable electrolyte
- Compliant with IEC 60086-4 safety standard and IEC 60079-11 intrinsic safety standard
- Restricted for transport (Class 9)

Cell size references

Electrical characteristics

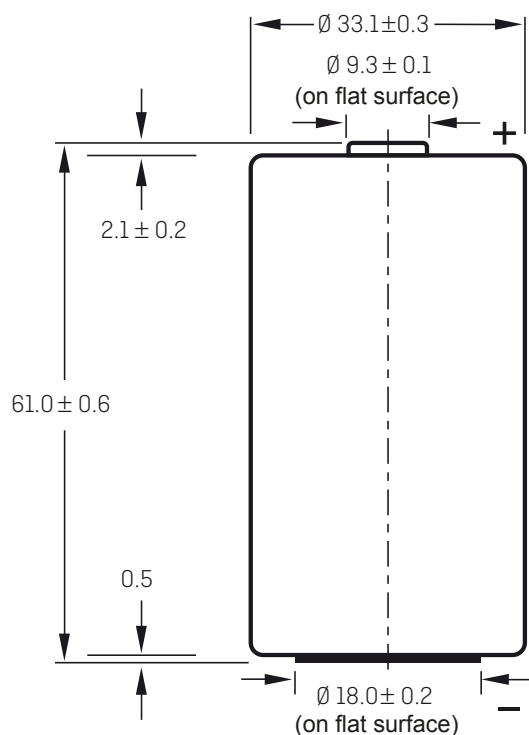
[typical values relative to cells stored for one year or less at + 30 °C max.]

Nominal capacity	17.0 Ah (at 5 mA + 20 °C 2.0 V cut-off. The capacity restored by the cell varies according to current drain, temperature and cut-off)
Open circuit voltage (at + 20 °C)	3.67 V
Nominal voltage (at 0.7 mA + 20 °C)	3.6 V
Maximum recommended continuous current	250 mA (to maintain cell heating within safe limits. Battery packs may imply lower level of maximum current and may request specific thermal protection.Consult Saft)
Storage (recommended)	+ 30 °C max
Operating temperature range	- 20 °C to + 60 °C

Physical characteristics

Diameter (max)	33.4 mm
Height (max)	61.6 mm
Typical weight	90 g
Li metal content	approx. 4.5 g

Dimensions



Storage

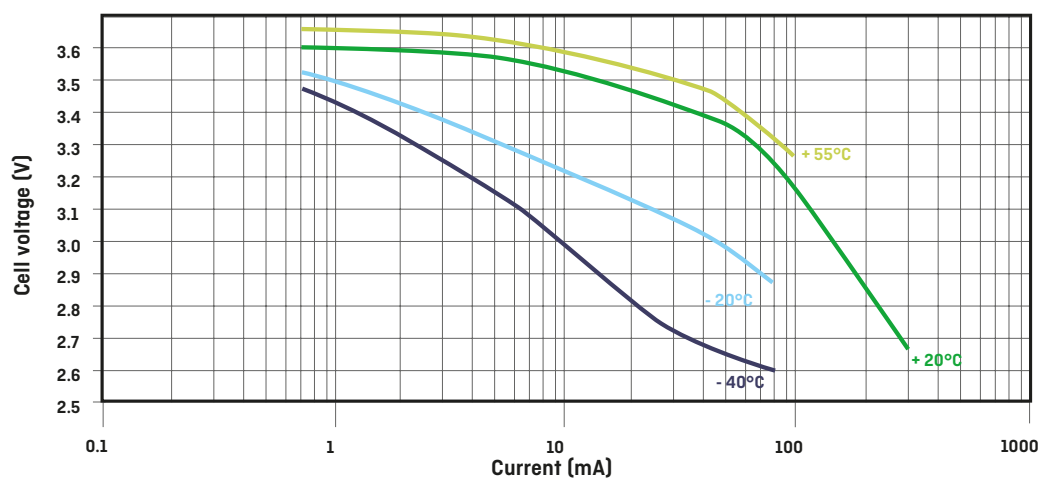
- The storage area should be clean, cool (preferably not exceeding + 30 °C), dry and ventilated.

Warning

- Fire, explosion and burn hazard.
- Do not recharge, short circuit, crush, disassemble, heat above 100 °C, incinerate, or expose contents to water.
- Do not solder directly to the cell.

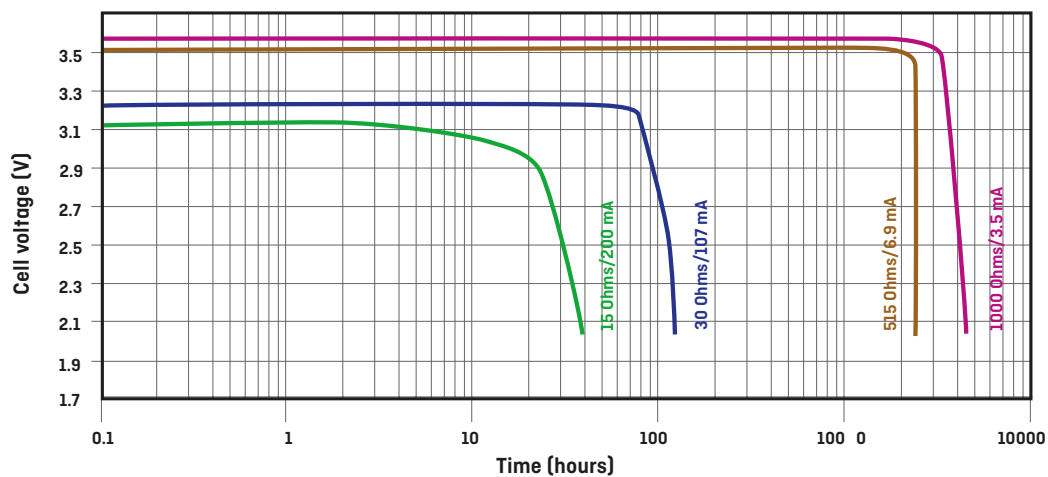
Curves

Voltage plateau versus Current and Temperature (at mid-discharge)

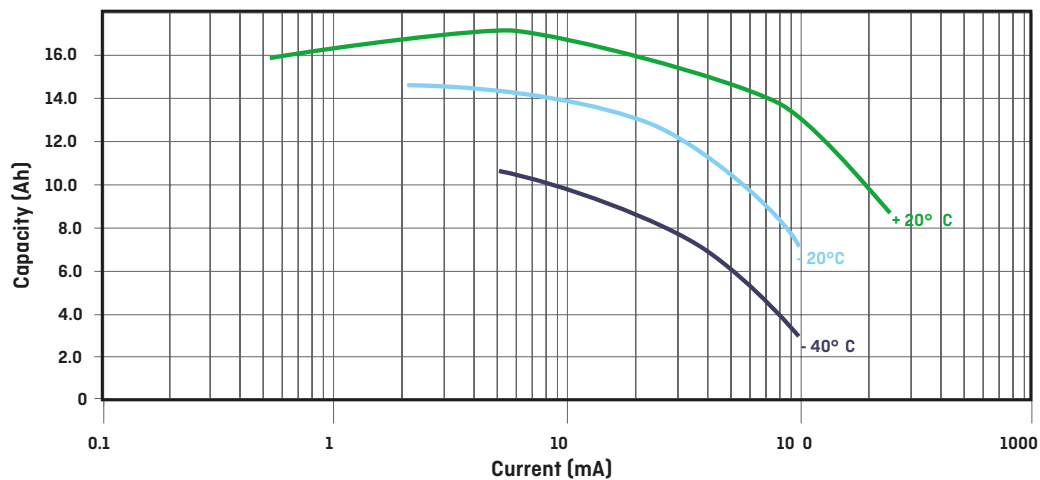


Curves

Typical discharge profiles at + 20 °C



Restored Capacity versus Current and Temperature (2.0 V cut-off)



Kamstrup A/S

Industrivej 28, Stilling
DK-8660 Skanderborg
T: +45 89 93 10 00
F: +45 89 93 10 01
info@kamstrup.com
kamstrup.com