

HOLROYD

BESPOKE SURFACE HEATING ELEMENTS

APPLICATIONS:

Holroyd's battery heaters provide an effective solution for retaining battery performance in cold conditions.

As batteries are exposed to lower temperatures this causes the chemical reaction to occur more slowly therefore producing a lower current than they would at room temperature. In situations below -20°C, these reactions can happen so slowly and generate so little power, that the battery can appear dead when it is not. However, by adding heating to these batteries, both lifetime and efficiency will increase, with the charging rate improving when in use in low temperatures.

Common applications where battery heater are required are for car, train and aircraft batteries. These heaters can also be used in the manufacturing of batteries as well as EV charging stations. Other applications include Solar batteries, renewable energy storage and telecommunications

MAIN POINTS:

- Improves Battery Performance and Efficiency
- Precise Even Heating
- Flexible & Lightweight
- Moisture & Chemical Resistant
- IP64 or IP65 Protection
- Wide Temperature Range -60°C to 200°C
- Adhesive Backing Option
- Bespoke Design
- Variety of Materials Including UL & LSLT



QUALITY



RELIABILITY



CREATIVITY



SERVICE



COMMUNITY

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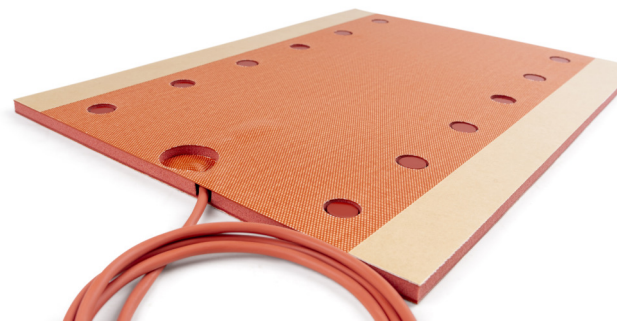
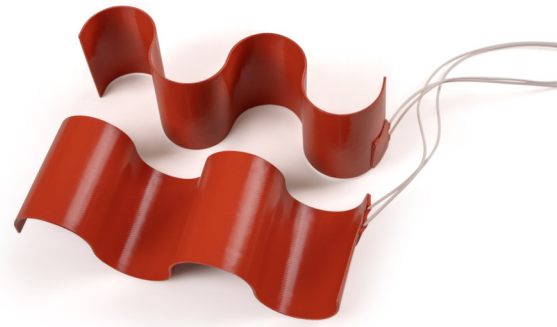
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CONSTRUCTION:

Holroyd battery heaters would be manufactured in either silicone or Kapton dependant on the requirement of the application. All heaters are manufactured as bespoke parts to suit specific batteries. These heaters can be supplied as flat or as formed heaters, where feasible.

CHARACTERISTICS:

Battery heaters have a good resistance to the following external factors and potential contamination; photodegradation, weathering, fungus & bacteria, acetone, alcohol, formic acid, brake fluid, acetic acid, greases, hydrochloric acid 10%, sulphuric acid 10%, waxes and plasticisers. In addition to this, the heaters have adequate gas permeability and good steam resistance up to 130°C and 2.5 bar respectively.

HEALTH & SAFETY:

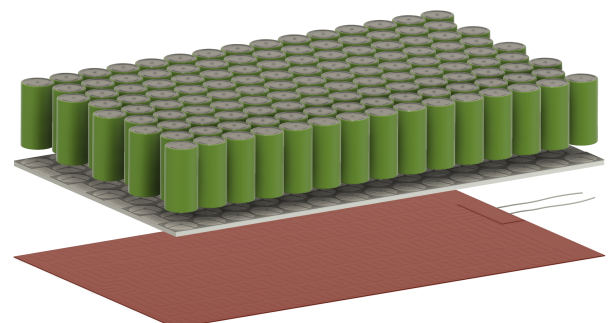
Holroyd heaters are intended for use in industrial electric apparatus. They correspond to the BS EN 60335-1:2012. The heater must be operated in accordance with these standards and regulations and should be installed on an electrical system protected by a residual current circuit breaker.

DESIGN CAPABILITIES:

Holroyd can design heating elements with simple geometry through to complex shapes with various holes and cut outs. We can work to basic sketches, technical drawings or supplied samples to manufacture a versatile range of heaters.

There is also the option to include components such as sensors, limiters or in line controllers to the heaters. Holroyd stock a wide variety of these device's but we can also fit free issue components when required.

TECHNICAL DATA	
MAXIMUM DIMENSIONS	Wire Wound - 940mm (W) x 300mm (L) Etch Foil - 595mm (W) x 2500mm (L)
THICKNESSES	0.8mm - 2.2mm
TEMPERATURE RANGES	-60°C - 200°C (Non Adhesive) -30°C - 180°C (Self Adhesive)
POWER DENSITIES	Variable
DIELECTRIC STRENGTH	1000V Above Operating Voltage
VOLTAGE RATING	Variable Single or 3 Phase
FIXINGS	Non-Adhesive or Self-Adhesive Hooks & Springs Preformed



(Illustration of heater on a Battery Pack)