

Battery Heater Mats

Extend Battery Runtime in Cold Weather

an EnerSys company



- Durable polyester or silicone construction
- Sealed on-mat electronics for maximum protection
- On-mat thermal switch & thermal fuse for redundant safety
- Insulated design directs heat to the batteries not the enclosure for a 30% reduction in power consumption
- Piggyback plug standard on 120V models
- Certified to CSA/UL safety standards

Alpha's battery heater mats are designed with safety and efficiency in mind.

Alpha's battery heater mats are a low-cost way of keeping backup batteries operating at their optimal temperature, maintaining battery backup performance at >70% of nominal levels at ambient temperatures below 32°F/0°C. The heater mats' insulated bottom ensure that energy is directed to the batteries and not wasted heating the enclosure. Durable polyester outer shells protect the heating elements from damage; their redundant thermal control protection ensures against overheating; and their fused power input protects against shorts. Alpha battery heater mats are a smart addition to any backup power system.

Battery Heater Mats

Consult your Alpha representative for P/N configurations



The main power cannector (1) on the heater mat is plugged into an AC source. In low temperature conditions the main control thermistor (2) will allow power to flow to the heater mat coil (5). The thermistor is mounted on the power code so that it reacts to the battery temperatures and not the mat surface temperature. A secondary thermistor (3) is mounted on the mat with significantly higher temperature settings than the main thermistor (2). This thermistor keeps the mat from overheading during extended run periods. A thermal fuse (4) is a final fail sofe device. The power connector (1) has an AC receptade so that additional mats can be plugged in. Its parallel wiring keeps the failure of the first mat from affecting the operation of others in the string.

Battery heater mats are an integral component in outdoor power solutions and need to be carefully integrated with the other system elements to ensure effective operation. Please contact your Alpha representative to determine the proper battery heater mat required for your outdoor power system.



