

ELECTRIC AIR HEATER KIT WITH BLUETOOTH



600W Vehicle Air Heater kit

The 600W Vehicle Heater utilises 3 PTC (Positive Temperature Coefficient) heaters and a fan to rapidly heat the vehicle ambient air. The controller maintains the ambient vehicle air temperature at a level determined by the temperature sensor while ensuring the supply battery is never over-discharged. The 600W Air heater is controlled by a fascia mounted potentiometer with an led indicator and a Bluetooth IOS / Android App. The Bluetooth app allows control of the temperature from the comfort of your chair. A 7 day app-controlled timer can be added.

The kit has 3 heater elements and the controller uses all 3 to get the passenger/working area to temperature as quickly as possible. The unit then maintains the target temperature using single element heating as much as possible. The unit maximises usable battery capacity by stepping the current loads and reducing the fan current as much as possible. There is a night mode/maintaining mode which allows running current to be matched to the mains charger capacity and reduces the fan noise during heating.

The heater can be configured to heat automatically when driving or when connected to a mains supply to ensure the maximum battery capacity is available for off grid heating. The EV Heater uses considerable energy and it's recommended a minimum of 100Ahr usable auxiliary battery capacity to ensure adequate heating.

Advantages when compared to diesel heating: no flammable diesel, carbon monoxide, carbon dioxide or diesel fumes, no need to refuel. The PTC heating elements inherently limit to their design temperature and so require no overheat protection but for additional safety, the PTC heaters are all mounted within a non-conductive & temperature resistant isolated housing within the heater chassis. In the event of an 'overheat' situation, there are 2 additional designed safety systems built into the EV Heater.

Specifications:

- Cool/Recirculate Fan: 24W Max inrush
- Heat Output: 200W | 400W | 600W Max
- Air Nozzle Size: 2x 50mm (diameter)
- Airflow: 187 m³/hr
- PTC Heating Elements: 3 off
- Nominal heat Output Temperature: 45 °C
- Max Output operating Temperature: 50 °C
- Controlled safety cutoff: 52 °C Off reset On below 30 °C
- Mechanical safety cutoff: 110 °C
- Dimensions (LWH): 155 x 150 x 200 mm
- Weight: 2.3 kg
- Fan Life: 70,000 Hrs @ 40°C
- Noise: 55 dB(A)
- Voltage: 10.5V - 15.5V 12V DC Nominal
- Nominal Battery Guard default setting (internal): 10.5V
- Current Max: 52A Continuous, -70A Inrush
- Current (In sleep mode): <6mA
- External Fusing (Internal Fan) + Aux Fan: 5 Amp Standard Blade On Board LED Fuse Blown Indicator
- External Fusing (PTC Heaters): 25 Amp Standard Blade On Board LED Fuse Blown Indicator

Accessories:

- 7 Day timer
- Fan booster AHC Fan Kit
- Wiring Kit - wiring kit to auxiliary battery
- Piping Kit (x) metre piping
- Mains Interface for bringing to temperature while connected to the mains
- Fans charger for constant running of the heater

