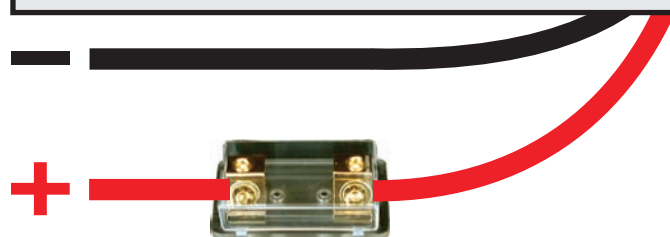
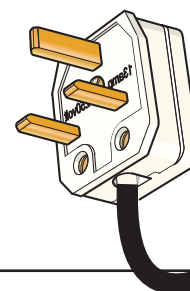
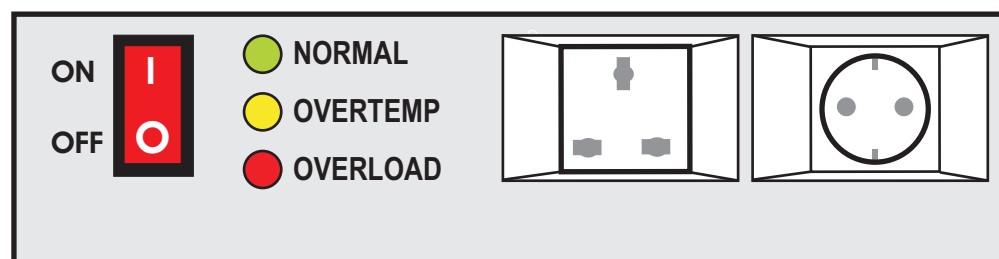


# STERLING Quasi Sine Wave Inverter

## 12V / 24V DC >> 230V AC

**Please read these instructions before use!**

**WARNING:**  
**DO NOT OPEN INVERTER.**  
**HIGH VOLTAGE!**



Sterling fuseholder GANL-1 / GMFB-2828

### LED:

- normal operation
- inverter overheated
- inverter overloaded

### Operation

- Ensure that the inverter has the correct voltage for your boat or vehicle.
- Fit as **close to the batteries** as possible.
- **Do not reverse the cables!** Connect the red cable to the positive terminal and the black cable to the negative terminal of the battery.
- Always use the inverter in an environment which is
  - **well ventilated,**
  - not exposed to direct sunlight or a heat source,
  - away from water, moisture, oil or grease,
  - away from any highly inflammable substance,
  - out of reach from children.
- **The output voltage of this unit must never be on your AC system at the same time as the 230V external mains line.** If the output voltage is to be used on a ring mains system, a suitable two-pole crossover switch must be used.
- **Always switch on the inverter first,** before plugging in any appliance.

### Troubleshooting

If the inverter does not appear to be functioning properly, please check the following:

- 1) **Unit produces no power:**  
 Check the wiring and clean the contacts.  
 Check the fuses and replace if necessary.  
 The warranty will be void if the fuse being used is larger than the one recommended!
- 2) **Unit trips due to overload:**  
 Reduce load or purchase a larger inverter.
- 3) **Unit trips due to overheating:**  
 Switch the unit off. Reduce load and wait until the inverter has cooled down. Switch the unit back on again.
- 4) **Unit trips due to low battery voltage:**  
 Check the battery voltage. Recharge the batteries and resume operation.

### Warranty (2 years)

Warranty will be void in cases of opened products, physical damage, misuse, modification, repair by unauthorised persons, carelessness and using the product for other purpose than its intended use.

This unit is e-marked for vehicle use and conforms to all CE and EEC directives for light industrial, commercial and household use.

[www.sterling-power.com](http://www.sterling-power.com)

# Specifications

| Model                   | 12V 350W       | 24V 350W       | 12V 600W       | 24V 600W       | 12V 800W       | 24V 800W       | 12V 1000W      | 24V 1000W      | 12V 1800W      | 24V 1800W      | 12V 2500W      | 24V 2500W      |
|-------------------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|
| Product Code            | I12350         | I24350         | I12600         | I24600         | I12800         | I24800         | I121000        | I241000        | I121800        | I241800        | I122500        | I242500        |
| Continuous Output Power | 350W           | 350W           | 600W           | 600W           | 800W           | 800W           | 1000W          | 1000W          | 1800W          | 1800W          | 2500W          | 2500W          |
| Peak Output Power       | 600W           | 600W           | 1000W          | 1000W          | 1200W          | 1200W          | 2000W          | 2000W          | 3000W          | 3000W          | 4000W          | 4000W          |
| Input Voltage DC        | 10V – 15V      | 20V – 30V      | 10V – 15V      | 20V – 30V      | 10V – 15V      | 20V – 30V      | 10V – 15V      | 20V – 30V      | 10V – 15V      | 20V – 30V      | 10V – 15V      | 20V – 30V      |
| Output Voltage AC       | 230V (+/- 5%)  | 230V (+/- 5%)  | 230V (+/- 5%)  | 230V (+/- 5%)  | 230V (+/- 5%)  | 230V (+/- 5%)  | 230V (+/- 5%)  | 230V (+/- 5%)  | 230V (+/- 5%)  | 230V (+/- 5%)  | 230V (+/- 5%)  | 230V (+/- 5%)  |
| Output Frequency        | 50Hz (+/- 1Hz) | 50Hz (+/- 1Hz) | 50Hz (+/- 1Hz) | 50Hz (+/- 1Hz) | 50Hz (+/- 1Hz) | 50Hz (+/- 1Hz) | 50Hz (+/- 1Hz) | 50Hz (+/- 1Hz) | 50Hz (+/- 1Hz) | 50Hz (+/- 1Hz) | 50Hz (+/- 1Hz) | 50Hz (+/- 1Hz) |
| Standby Current         | < 0.4A         | < 0.2A         | < 0.5A         | < 0.25A        | < 0.5A         | < 0.25A        | < 0.5A         | < 0.3A         | < 0.6A         | < 0.4A         | < 0.8A         | < 0.5A         |

## Protection, Overload Protection, Output Short Protection, Battery Low Voltage Shutdown

|                       |                |                |                |                |                |                |                |                |                |                |                 |                 |
|-----------------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|-----------------|-----------------|
| Low Voltage Warning   | 10.0V +/-0.5V  | 20.0V +/-0.8V  | 10.5V +/-0.5V  | 21.0V +/-0.8V  | 10.5V +/-0.5V  | 21.0V +/-0.8V  | 10.0V +/-0.5V  | 21.0V +/-0.8V  | 10.0V +/-0.5V  | 21.0V +/-0.8V  | 10.5V +/-0.5V   | 21.0V +/-0.5V   |
| Low Voltage Trip      | 9.50V +/-0.5V  | 19.50V +/-0.8V | 10.0V +/-0.5V  | 20.0V +/-0.8V  | 10.0V +/-0.5V  | 20.0V +/-0.8V  | 9.5V +/-0.5V   | 20.0V +/-0.8V  | 9.5V +/-0.5V   | 20.0V +/-0.8V  | 10.0V +/-0.5V   | 20.0V +/-0.5V   |
| Dimensions appr. (mm) | 190 x 115 x 75 | 190 x 115 x 75 | 290 x 210 x 75 | 290 x 210 x 75 | 290 x 210 x 75 | 290 x 210 x 75 | 190 x 260 x 90 | 190 x 260 x 90 | 290 x 260 x 90 | 290 x 260 x 90 | 470 x 170 x 165 | 470 x 170 x 165 |
| Weight appr.          | 1.0kg          | 1.0kg          | 2.5kg          | 2.5kg          | 2.8kg          | 2.8kg          | 2.9kg          | 2.9kg          | 4.9kg          | 4.9kg          | 8.5kg           | 8.5kg           |
| Sterling Fuse Type    | GAMT60A        | GAMT30A        | GANL100A       | GAMT50A        | GANL100A       | GAMT50A        | GANL200A       | GANL100A       | GANL250A       | GANL150A       | GANL400A        | GANL250A        |



### Warning

**When installed in vehicles or boats, the inverter must be connected to the chassis or ground (ground terminal)!**

**Never use the inverter on vehicles where the positive terminal of the battery is connected to the chassis!**