

## INSTRUCTION MANUAL

AUTOMATIC MAINSMANAGER - MODEL NO. AMS 16

The AMS-16 is an Automatic Mains Transfer Switch which switches from Mains/Generator or Inverter to Output (consumers).

The total switch time is less then 16ms, within 1 cycle. In the 16ms gap there is reduced power available. This way almost any kind of equipment will keep on working.

The Inverter input of the AMS-16 will normally be connected to the output. In this case the red and green LED will light up.

*Red says the mains is not present, or the mains voltage is too low or doesn't have the right frequency.*  
*Green says the AMS-16 is in Inverter Operation mode.*

If the mains or a generator is connected, the red LED will go out, unless the voltage is too low or the frequency is wrong.

After 10 seconds de AMS will switch to the mains (or generator) and the green LED becomes yellow, which indicates that the mains or generator input is in use.

### Installation of the AMS-16

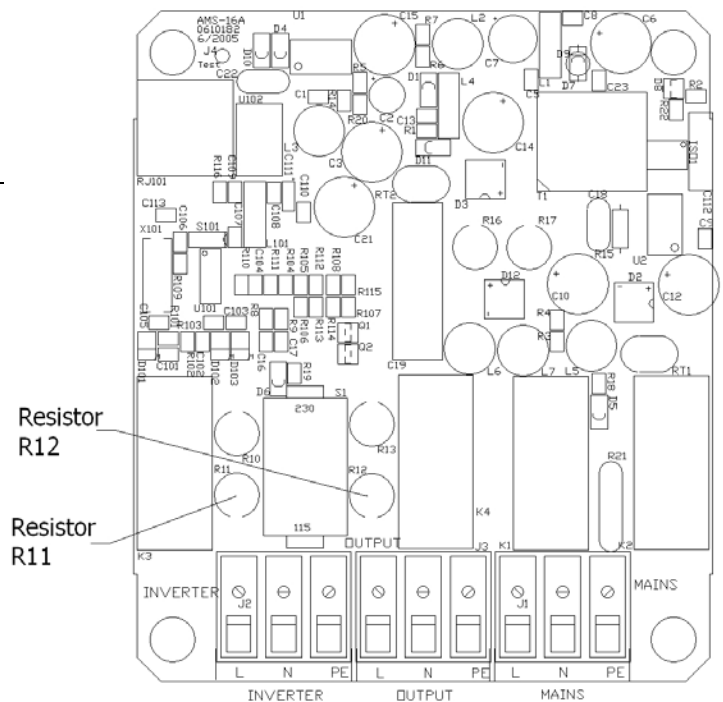
Read the Safety Regulations!

Always disconnect AC power when working on the AMS-16. Use fuses or circuitbreakers of 16A maximum at every connection.

Switch S1 (between R11 and R12) on 115 when using an Inverter smaller than 850W. When using an Inverter larger than 850W the switch should be set on 230.

For very sensitive Inverters the Reduced Power can be switched off by cutting the wires of resistors R11 and R12 en switching S1 to 230.

After that the inverter, mains/generator and consumers can be connected to the connectors as shown on the drawing.



### Features

- Controlled switching with constant switching times.
- Reduced Power available during switching.
- Switch over from inverter to mains takes place in the zero-crossing.

### Specifications

Voltage range	190-260VAC
Frequency range	50Hz +/- 2Hz
Current	16A max.
Total switching time	16ms max.
Switches from mains to inverter	below 180VAC
Switches from inverter to mains	above 187VAC
All internal power supplies work from	85 - 260VAC.
Temperature range	-10°C – 40°C
Dimensions	122*150*86mm
Weight	530 gr.
The Mains/Generator input only works with sine wave voltage.	
Different software versions available on request.	