



ROBOT 312 – 3



Switching Battery Charger 12V 40A



INTRUCTION MANUAL

TECHNICAL SPECIFICATIONS

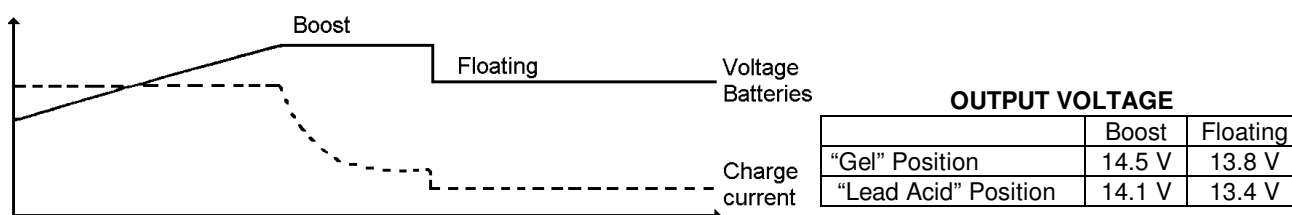


POWER SUPPLY DATA:

- Input voltage ⇒ 230 VCA or 115 VCA ($\pm 15\%$). Settable internally.
- Frequency ⇒ 50 Hz or 60 Hz ($\pm 10\%$) cat. II
- Consumption ⇒ 5 A (230 VCA) or 10 A (115 VCA)
- Performance ⇒ 80% typ.

OUTPUT DATA:

- Number of outputs ⇒ 3 insulated outputs
- Charge type ⇒ 3 stages: limited current / Boost / Floating
- Battery type selector ⇒ "GEL - LEAD ACID" selector
- Maximum output current ⇒ 40 A ($\pm 5\%$)
- Batteries ⇒ Lead Acid or Gel 80 Ah to 400 Ah Max.; 12 V (6 elements)



SAFETY DEVICES:

- In event of low power supply ⇒ Battery charger shutdown (automatic operation reset)
- In event of short circuit on output ⇒ Battery charger shutdown (automatic operation reset)
- In event of polarity inversion ⇒ Output fuse damage
- In event of battery overvoltage ⇒ Battery charger shutdown (automatic operation reset)
- In event of overheating ⇒ Battery charger shutdown (automatic operation reset)
- Power supply fuses ⇒ T 5A 250V 6,3x32mm (230 VAC); T10A 250V 6,3x32mm (115VCA)
- Output fuse ⇒ No. 2 of 25 A (strip fuse), 32 V

STANDARDS

- Emissions and sensitivity ⇒ EN 55014; EN55104; EN61000-3-2; EN61000-3-3
- Safety ⇒ EN 60335 ed.95 + amendments; EN 60335-2-29 ed. 96
- Appliance category ⇒ Class 1

INDICATORS

- Battery charger operation ⇒ "On/Off" Led
- Battery low ⇒ "Boost" Led
- Internal overheating ⇒ "Temp. Alarm" Led
- With optional panel it is possible to obtain the same remote visualitions.

TEMPERATURES

- Operating temperature ⇒ from -10°C to $+50^{\circ}\text{C}$
- Storage temperature ⇒ from -20°C to $+70^{\circ}\text{C}$
- Cooling ⇒ Forced with 2 fans
- Relative humidity ⇒ From 10% to 90% condensate free. Tropicalised electronic circuit.

MECHANICAL DATA

- Enclosure ⇒ Enclosure in aluminium with epoxy powder finish
- Assembly ⇒ Wall-mounted
- Protection rating ⇒ IP20
- Dimensions ⇒ 230 x 300 x 90 mm
- Weight ⇒ 3.5 Kg. approx.

MAINTENANCE

PRELIMINARY MEASURES AND WARNINGS



- Before maintenance inside the appliance, observe the following:
 - 1) disconnect the unit from the mains.
 - 2) wait 5 minutes before opening the cover.
 - 3) disconnect the battery cables (- BAT obligatory)
- Hazardous voltage present on electronic circuit; risk of electric shock.
- If the mains fuse is blown, do not attempt to replace as this condition is often due to a general fault on the mains and therefore irreversible on the electronic circuit.
- Polarity inversion on battery cables automatically blows the output fuse.
- In the event of replacement of a blown output fuse, replace with a version with the same characteristics. To obtain an adequate electrical contact, tighten the fuse holder contacts before mounting new fuses.
- Connect the service battery to terminal + BAT1.
- Never connect non-rechargeable batteries.
- Disconnect from the power supply mains before connecting/disconnecting batteries.
- Position batteries to be charged in a well-ventilated area.

LED DESCRIPTION AND FAULTS

FRONT PANEL:

- “On/Off” Led on: ⇒ Battery charger on
- “Boost” Led on: ⇒ Batteries charging (Boost)
- “Boost” Led off: ⇒ Batteries charged (Floating)
- “Temp Alarm” Led flashing:
 - ⇒ Internal temperature fault
 - ⇒ Excessive ambient temperature
 - ⇒ Ventilation slots blocked
 - ⇒ Appliance positioned in poorly ventilated zone
 - ⇒ Appliance positioned in the vicinity of a heat source
 - ⇒ Internal fan faulty

ASSEMBLY SYSTEM

