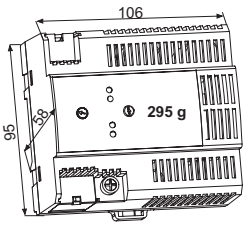
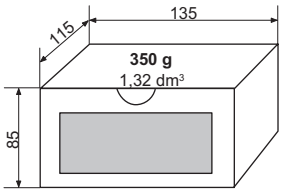
EAN CODE : 3760244880307 5 V TO 29 V REMOTE-SENSING **ALE2902M**

PRECISE : Switching power supply offering a ripple <3mV rms.
UNIVERSAL : 12 settings in 2 V steps with ±1V adjustment range.
COMPLETE : 12 or 24 V lead-acid battery charger function and remote sensing.
PRACTICAL : Charger position and status indicators.
PROTECTED : against short circuits and reverse polarity.

60 WATTS

5 V to 29 V
2,5 A to 24 V
3,5 A to 12 V
4 A to 5 V
battery charger 12V or 24 V





Specifications

Voltage

- Floating outputs on spring terminal block with levers for 2,5 mm2 (AWG12) wires.
- Output voltage : adjustable from 5 to 29 V by 12 position switch, and fine adjustment
  switch positions : 6, 8, 10, 12, 14, 16, 18, 20, 22, 24, 26, 28 Volts.
  Fine adjustment range : ± 1 Volt, whatever the switch setting
  12 and 24 V lead-acid battery charger positions identified by two LED indicators.
- Regulation :
  < 30 mV at 5 V and < 10 mV at 29 V for a load variation from 0 to 100%.
  < 1 mV at 29 V @ 2,1 A and < 4 mV at 5 V @ 4 A for ±10% line variation.
- Dynamic regul. :
  < 1% to 29V and < 5% to 5 V for a load change from 10 to 90%.
- Ripple : < 3 mV rms including :
  < 3 mV peak to peak of the 100 kHz signal
  < 4 mV peak to peak of the 100 Hz signal
  < 10 mV peak to peak of switching transients
- Hold-up time : 25 ms at half load and 12 ms at full load. (190 V line input)
- Indicators : Green LED indicator : "power supply operating"
  Yellow LEDs indicator : "12 V and 24 V battery charger position"
  Red LED indicator : "status, output fuse broken" or "overheat"
  The yellow LEDs also indicate battery-backed operation.

Current

- Max I : 4,2 A in short circuit condition
  4 A to 5 V, 3,5 A to 12 V, 2,5 A to 24 V and 2,1 A to 29 V

Battery charger

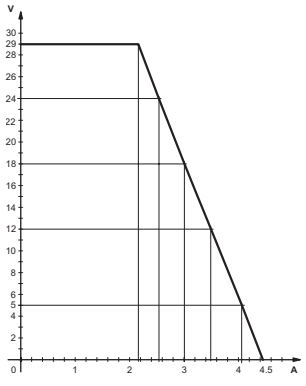
- Rated capacity of the lead-acid batteries with elctrolyte free :
  35 Ah for 12 V and 20 Ah for 24 V.
- Minimum capacity of the lead-acid batteries sealed :
  10 Ah for 12 V and 7 Ah for the 24 V.
  (In all the cases, to refer to the note of the batteries manufacturer)

Remote sensing

- Correction of the voltage drop in the wires (4 wires method)
- Input on disconnect scribe terminal blocks for 2,5mm2 wires (AWG12)
- Correction : Max 3 V (1,5 V per wire)
- Ripple : < 30 mV for a load variation from 0 to max.

Power

- A linear function of voltage from 60 W to 20 W (29 to 5 Volts).



Protection

- Against short circuit, by current limit.
- Against overcurrent on primary circuit, by fuse.
- Battery reverse polarity protection by output fuse.
- Against overtemperature, by thermal shutdown.
- Cover on input output terminal block.

Other specifications

- Safety : Class II, Safety Extra Low Voltage (SELV),
  complies with EN 61010-1, EN 61010-2-201 and EN 62368-1.
- EMC : Complies with EN 61000-6-2 and EN 61000-6-4.
- Overvoltage Category : II ; Pollution Degree : 2.
- Installation altitude : < 2000 m.
- Protection level : IP 30.
- Operating temperature : from -25 to +60 °C ; derating : 1 W/°C from +40 °C
- Input voltage : 220-240 VAC (190 to 264 Volts), 50-60 Hz.
- Mains input : spring terminal block with levers for 2,5 mm², (AWG 12) wires.
- Power consumption : 71 W max.
- Dielectric strength : 3000 VAC from input to output.
- Presentation : modular polycarbonate case (6 x 17.5 mm) screenprinted.
- Mounting : Clips package integrated in modular case for DIN rails
  profile 35x7,5 mm or 35x15 mm.
  Removable wall mouting integrated to the case for 4mm screws.