

# A930-L 12AMP BATTERY CHARGER 24V – 24V (26V Turn On)

24V to 24V BATTERY CHARGER 12AMP  
HIGH SPECIFICATION  
MANUFACTURED IN THE UK



- PART NO: A930-L
- TYPE: SWITCH MODE BATTERY CHARGER
- Maximum Output (Charging) Current: 12A (PVin = 26V)
- Output Voltage (V-out): 28.0V  $\pm$  0.1V
- Power Input Voltage (PVin): 18V to 28V
- Control Input Voltage (CVin): Charger Enabled: >26.5V / Charger Disabled: <25.5V
- Hysteresis: 1V
- Control Input Current: 50 $\mu$ A
- Battery Current Drain: 250 $\mu$ A (Charger Disabled)
- Overload Protection: Yes
- Thermal shutdown: Yes
- Polarity Protection: External Fuses Input = 15A / Output = 15A
- Connections: Flying leads:
  - Red = Positive Input
  - Black = Negative Input, Output and Control
  - Blue = Positive Output
  - Yellow = Positive Control
- Physical Dimensions: 215 x 71 x 55mm
- Mountings: 4 x  $\varnothing$  4.5mm Holes
- Hole Centres: 198 x 40mm
- Weight: 651g
- Construction: Anodised Cooling Profile
- LED ON INDICATES CHARGING

**MODELS ALSO AVAILABLE: 24AMP / 36AMP / 48AMP / 60AMP / 72AMP**

## BEFORE INSTALLATION YOU WILL NEED:

- 2 X 15A AUTOMOTIVE BLADE FUSE (COLOUR: BLUE)
- 1 X 1A AUTOMOTIVE BLADE FUSE (COLOUR: BLACK)
- 3 X INLINE FUSE HOLDER (TO TAKE BLADE FUSES)

## RECOMMENDED MINIMUM CABLES SIZES:

- INPUT (RED): 2.5mm<sup>2</sup> CONDUCTOR CROSS SECTION (35/0.3mm)
- OUTPUT (BLUE): 2.5mm<sup>2</sup> CONDUCTOR CROSS SECTION (35/0.3mm)
- GROUND (BLACK): 2.5mm<sup>2</sup> CONDUCTOR CROSS SECTION (35/0.3mm)



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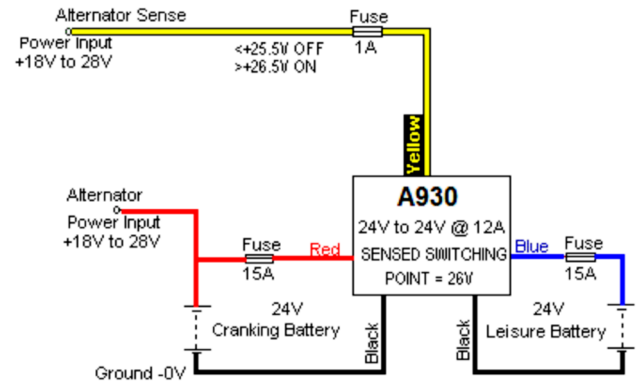
# A930-L 12AMP BATTERY CHARGER 24V – 24V (26V Turn On)

The Battery Charger starts when the voltage reaches approximately 26V.

## Wired as a fully automatic Battery Charger

The Yellow Control Wire is wired directly to the +ve Connection of the 24V Cranking (Donor) Battery to switch the Charger on and off automatically. In this case the Control Wire senses the 24V Cranking (Donor) Battery Voltage and switches the Charger on only when the 24V Cranking (Donor) Battery is being charged.

The Unit automatically controls the maximum charge into the 24V Leisure (Recipient) Battery preventing it from becoming over-charged / damaged and prevents the 24V Cranking Battery (Donor Battery) from becoming flat / exhausted.

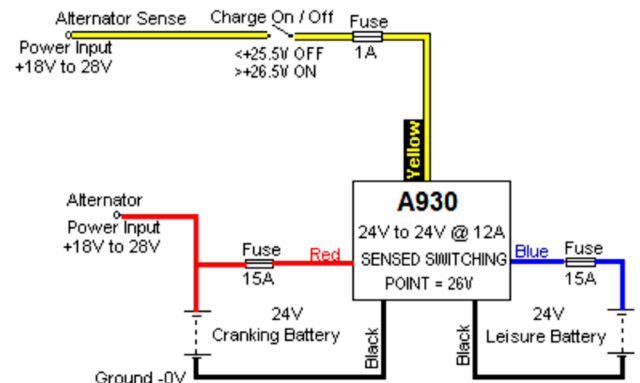


## Wired as a manually operated Battery Charger

The Yellow Control Wire is wired via a Switch to the +ve Connection of the 24V Cranking (Donor) Battery to switch the Charger on and off manually.

In this case the Operator can control when the Battery Charger is switched on or off.

If left on, the Unit will automatically control the maximum charge into the 24V Leisure (Recipient) Battery preventing it from becoming over-charged / damaged and prevent the 24V Cranking Battery (Donor Battery) from becoming flat / exhausted.



1. CONNECT THE BLUE LEAD TO THE +VE CONNECTION OF THE 24V LEISURE / AUXILIARY BATTERY (FITTING 1 X INLINE FUSE HOLDER WITH 15A BLADE FUSE BETWEEN THE 24V BATTERY AND THE BATTERY CHARGER AS SHOWN ON WIRING DIAGRAM SUPPLIED WITH UNIT)
2. CONNECT THE BLACK LEAD TO GROUND, IE: THE VEHICLE CHASSIS (COMMON NEGATIVE)
3. CONNECT THE RED LEAD TO THE +VE CONNECTION OF THE 24V CRANKING BATTERY (FITTING 1 X INLINE FUSE HOLDER WITH 15A BLADE FUSE BETWEEN THE 24V BATTERY AND THE BATTERY CHARGER AS SHOWN ON WIRING DIAGRAM SUPPLIED WITH UNIT)
4. THE BROWN CONTROL LEAD GIVES YOU THE OPTION TO SWITCH THE BATTERY CHARGER ON AND OFF USING A STANDARD LOW CURRENT SWITCH.
5. ALTERNATIVELY YOU CAN CONNECT THE BROWN LEAD TO THE +VE CONNECTION OF THE 24V CRANKING / DONOR BATTERY (FITTING 1 X INLINE FUSE HOLDER WITH 1A BLADE FUSE BETWEEN THE 24V BATTERY AND THE BATTERY CHARGER AS SHOWN ON WIRING DIAGRAM SUPPLIED WITH UNIT). THE BROWN LEAD DETECTS THE VOLTAGE OF THE BATTERY AND WHEN THE BATTERY VOLTAGE FALLS BELOW 25.5V DC IT WILL AUTOMATICALLY SWITCH THE BATTERY CHARGER OFF UNTIL THE ALTERNATOR HAS REPLENISHED / TOPPED UP THE CRANKING / DONOR BATTERY, AT WHICH POINT THE BATTERY CHARGER WILL BE AUTOMATICALLY SWITCHED BACK ON.

For O.E.M. Customers, Leads can be terminated to suit your requirements

This Battery Charger has been designed using a building block system to obtain the power needed to suit your requirements

IF IN DOUBT, PLEASE CONSULT AN AUTOMOTIVE ELECTRICIAN OR TELEPHONE US