

# Installation Instructions

## Electric Vehicle Charging Station

### “J1772 AC Level 2”

**This product requires connection to an existing fused supply or a new fused spur, This product must only be installed by a qualified electrician in accordance with the local electrical installation regulations. If installed in a UK dwelling this product must be fitted in accordance with BS 7671:2008 'Part P' requiring a certificated installer.**

To Installer:

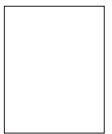
The box comes complete and pre-installed with the following items

- 1) RCBO, 30 mA trip, 1P+N
- 2) Overload protection, 40 Amps Type C
- 3) J1772 Communications protocol circuit
- 4) 30 Amp internal double pole contactor relay
- 5) 16 or 30 Amp J1772 car plug and cable  
( Please ensure you have this information as the 16 Amp model will require the current limiting set to 16 Amps )
- 6) Illuminated LED plug holder

16 Amp  
cable and  
socket unit



30 Amp  
cable and  
socket unit



#### Unit Installation.

Please mount vertically on a wall as per the wording on the label.

This unit can be mounted inside or outside.

This unit will usually require a dedicated fused supply if installed in a house/office, especially if the full 30 Amps was to be used, however if configured for 16 amps (or less) it may be possible to attach to a suitable ring main, please use your judgment as a professional electrician and comply to your local electrical regulations, standards and codes.

#### Current limiting safety setting.

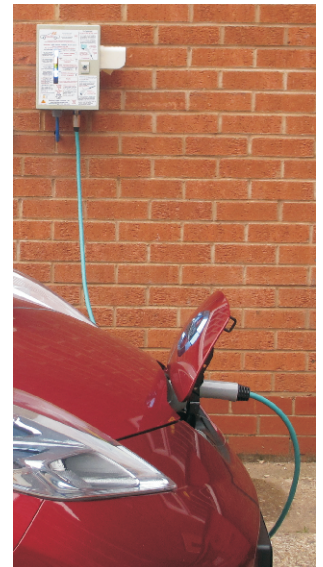
This device only has the ability to regulate the current flow through the unit if the receiving appliance (e.g. integrated car charger) confirms to the relevant standards and adapts to the information transited by this unit, in situations where the unit is used as a 'safe' power supply only i.e. for vehicles requiring a 'safe' 230V then there is no electronic current restriction, the current must be correctly configured on the immobilisation unit for the maximum load of the target vehicle.

#### For vehicle charging.

(For vehicles with a J1772 charger onboard)

The unit works by communicating with the vehicles on-board battery charger, advising the charger of the maximum current available from this charge station (Preset by the installer), i.e. If the integrated vehicle charger has a 16 Amp capability but is connected to a charge station set at 10 Amps (Position 1 on rotary switch); The car will reduce its power consumption to a maximum of 10 Amps. On the other hand if you have a 30 Amp mains supply with 30 Amp connector and cable, but the integrated vehicle charger is only rated to 16 Amps then the setup can be increased to 30 Amps (Position 8 on rotary switch) this will not harm the integrated charger as it will still only take a maximum of 16 Amp (Assuming 16A rating).

Make sure you know the current rating of all the items involved, for example if the plug and cable is 16 or 32 Amps, also what is the input supply current capability, when you have established the lowest current in the chain i.e. feed in 32 Amps, output socket and cable 16 Amps, then please set the current limiter on the unit to the lowest value, in this example 16 Amps (Due to the socket and cable) which is position 5 on the rotary switch.



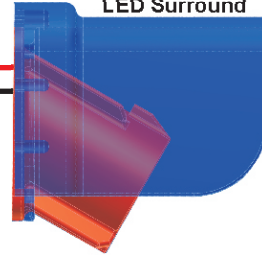
# Charging station wiring

Optional ( not supplied )

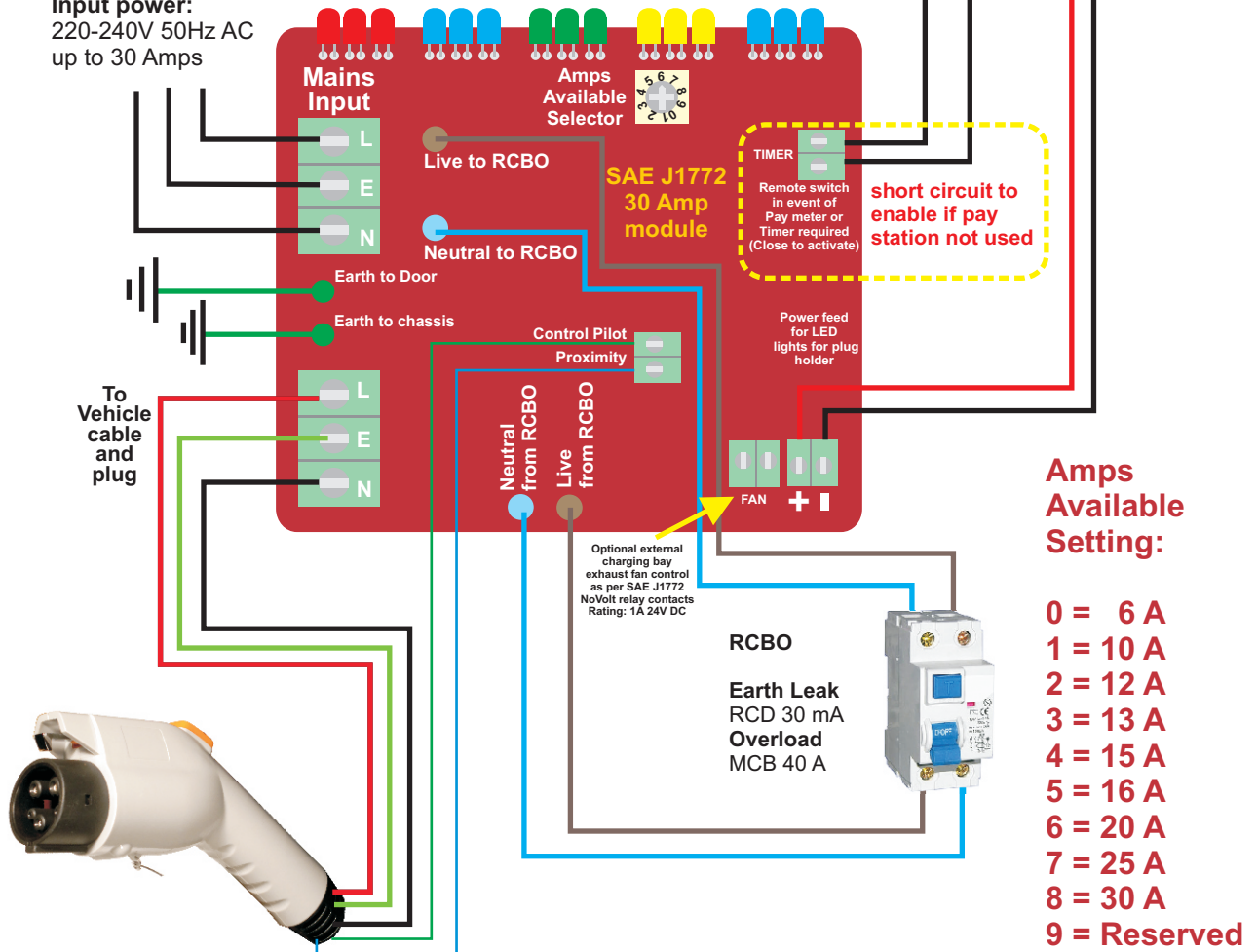
External pay meter  
or timer if required



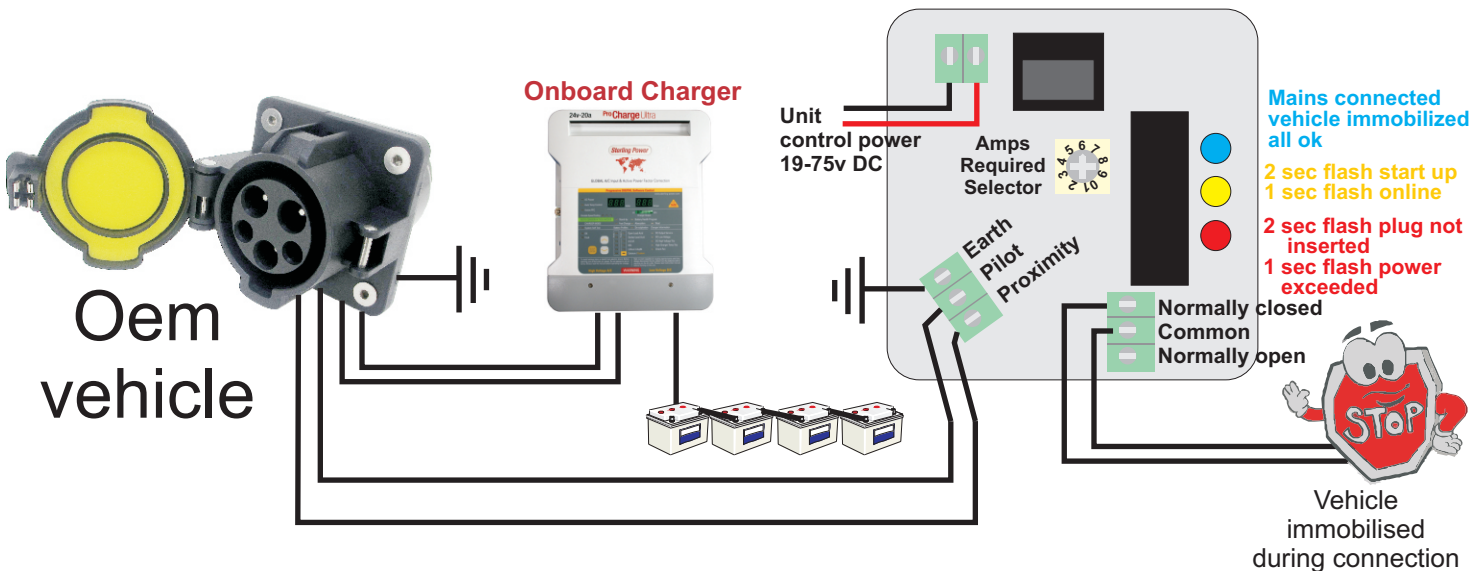
Blue light  
LED Surround



Input power:  
220-240V 50Hz AC  
up to 30 Amps

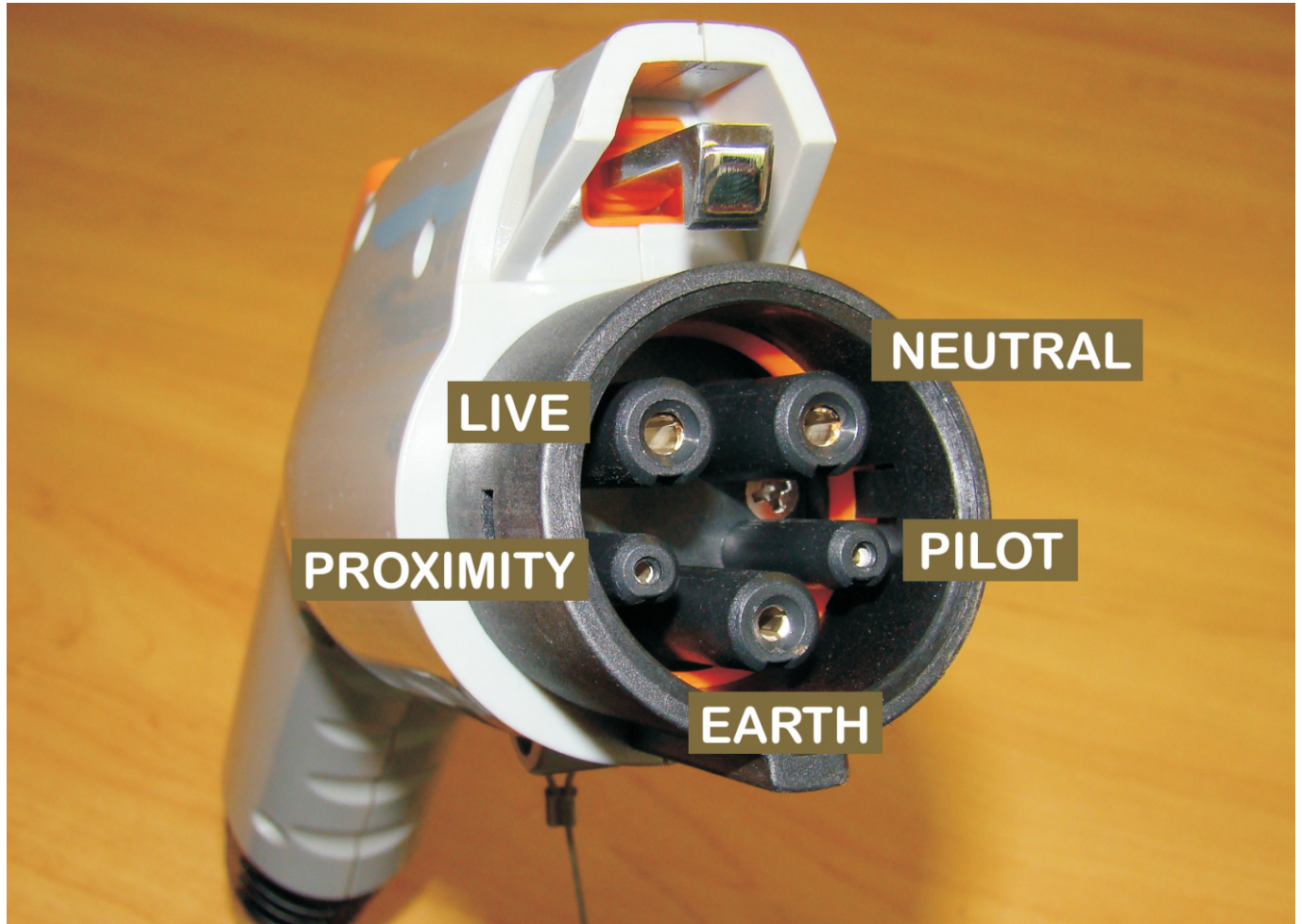


On board vehicle **SAE J1772** receiving / control and vehicle immobilization unit ( only required for new OEM build units ) only relevant to vehicles such as fork lift trucks or refrigeration vehicles or emergency vehicles who use this as a safe means of delivering power to a vehicle and isolate the vehicle



# J1772 Vehicle Plug Connections

## “J1772 AC Level 2”







## Customer Service & Warranty

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**Your 100 % satisfaction is our goal.** We realise that every customer and circumstance is unique. If you have a problem, question, or comment please do not hesitate to contact us. We welcome you to contact us even after the warranty and return time has passed.

### **Product Warranty:**

Each product manufactured by Sterling Power comes with at least a 2 year limited factory warranty. Certain Products have a warranty period of time greater than 2 years. Each product is guaranteed against defects in material or workmanship from the date of purchase. At our discretion, we will repair or replace free of charge any defects in material or workmanship that fall within the warranty period of the Sterling Power product. The following conditions do apply:

- **The original receipt or proof of purchase must be submitted to claim warranty. If proof cannot be located a warranty is calculated from the date of manufacture.**
- **Our warranty covers manufacture and material defects. Damages caused by abuse, neglect, accident, alterations and improper use are not covered under our warranty.**
- **Warranty is null and void if damage occurs due to negligent repairs.**
- **Customer is responsible for inbound shipping costs of the product to Sterling Power either in the USA or England.**
- **Sterling Power will ship the repaired or warranty replacement product back to the purchaser at their cost.**

If your order was damaged in transit or arrives with an error, please contact us ASAP so we may take care of the matter promptly and at no expense to you. This only applies for shipping which was undertaken by our company and does not apply for shipping organised by yourself. Please do not throw out any shipping or packaging materials.

All returns for any reason will require a proof of purchase with the purchase date. The proof of purchase must be sent with the returned shipment. If you have no proof of purchase call the vendor who supplied you and acquire the appropriate documentation.

To make a claim under warranty, call our customer care line at ( USA 1-(207)-226-3500, England 01905 771771). We will make the best effort to repair or replace the product, if found to be defective within the terms of the warranty. Sterling Power will ship the repaired or warranty replacement product back to the purchaser, if purchased from us.

Please review the documentation included with your purchase. Our warranty only covers orders purchased from Sterling Power. We cannot accept warranty claims from any other Sterling Power distributor. Purchase or other acceptance of the product shall be on the condition and agreement that Sterling Power USA LLC and Sterling Power LTD shall not be liable for incidental or consequential damages of any kind. Some states may not allow the exclusion or limitation of consequential damages, so, the above limitations may not apply to you. Additionally, Sterling Power USA and Sterling Power LTD neither assumes nor authorizes any person for any obligation or liability in connection with the sale of this product. This warranty is made in lieu of all other obligations or liabilities. This warranty provides you specific legal rights and you may also have other rights, which vary from state to state. This warranty is in lieu of all other, expressed or implied.

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