

LASER[®]

Part No. 7695

Electric Vehicle Charger

Portable | 240v

Instructions



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Introduction

This is a compact and portable EV (Electric Vehicle) mains charger that lets you easily charge your Type 2 EV from a domestic (UK) 3-pin socket. Useful 5 metres cable length from plug to plug — plug in and charge — suitable for all UK households. Supplied with a convenient carry-case to keep in the EV. Charger is IP54 rated for dust and moisture ingress.

Components

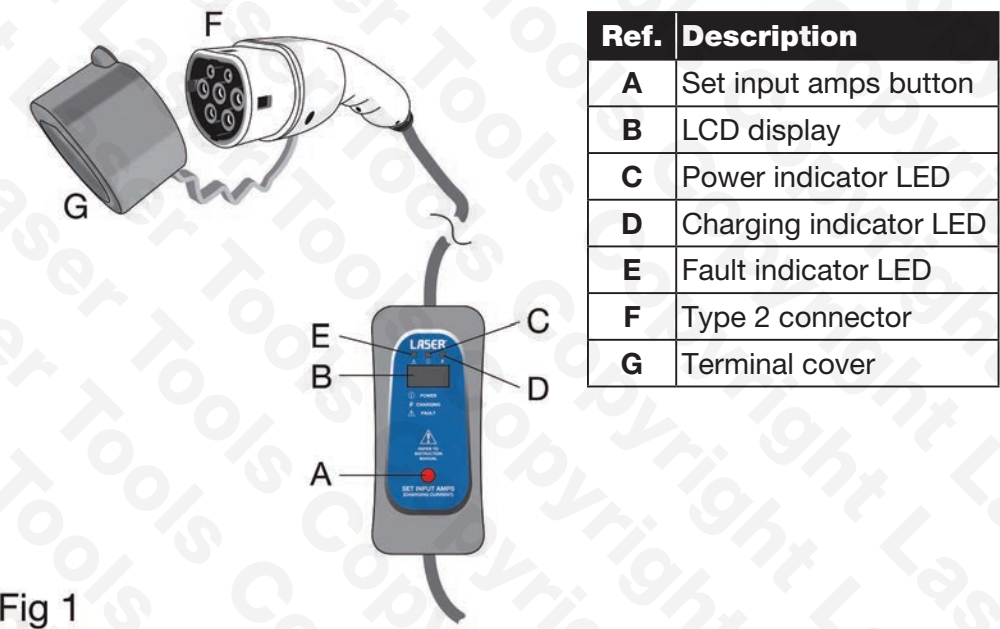


Fig 1

Instructions

Ensure that every user reads and understands these instructions.

1. Connect the 3-pin plug to a suitable (UK-spec.) 3-pin socket and switch ON.
2. Refer to **Figure 1**: when the 3-pin socket is switched ON, the LCD display (B) activates and the power indicator LED (C) lights up green.

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3. Set the input current (amps) to be used by pressing the set input amps button (A). Refer to **Figure 2**, there are three rates of charge: 8A, 10A and 13A, and this is displayed as the button is pressed.

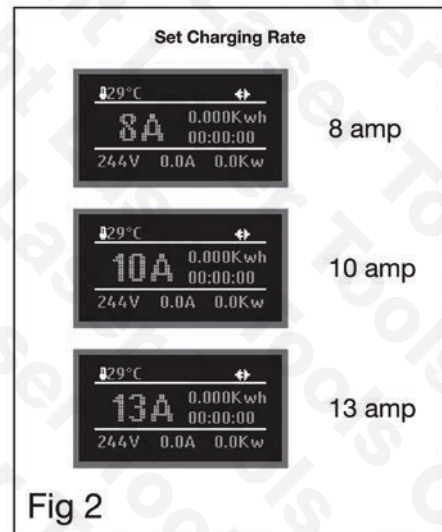


Fig 2

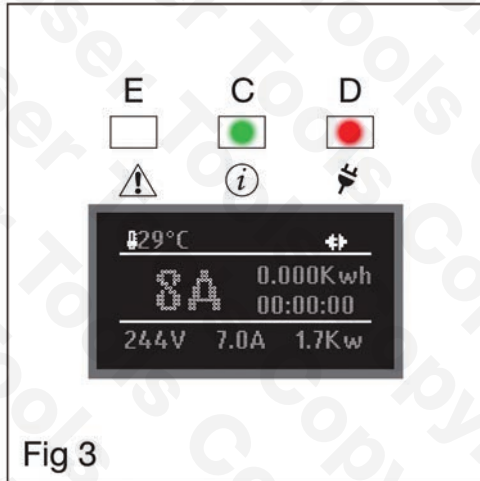
4. **Note:** Setting the charger to 13A is very likely to trip a domestic RCBO (residual circuit breaker with overcurrent protection), and it will certainly trip a circuit breaker on a protected extension lead. Thus we would advise setting the charger to 8A or 10A and if you are using an extension lead, set the charger to 8A only.
5. Remove the cover (G) from the Type 2 connector (F) and connect to the charging socket on the EV.
6. Wait until the charging indicator LED (D) lights up red to show that the charging process has started. The status of the charging process is shown on the LCD display (B). Do not leave the charger until it is in charging status.
7. **Note:** Do not change the rate of charge once the charger has been connected to the EV. Only do this if the Type 2 connector (F) is disconnected from the vehicle.

Instructions

LED Status:

There are three status LEDs on the front panel of the charger:

- Power indicator LED (**C**) green.
- Charging indicator LED (**D**) red.
- Fault indicator LED (**E**) yellow.



LED status	Fault LED (yellow)	Power LED (green)	Charging LED (red)
Ready	OFF	ON	OFF
EV connected	OFF	SLOW FLASH	OFF
CP error	OFF	FAST FLASH	OFF
Charging	OFF	PULSING	ON
Charge complete	OFF	OFF	OFF
Fault	FLASHING	ON	OFF

When charging is complete (all LEDs OFF), disconnect from the vehicle.

Specifications:

Connector:	IEC 62196-2 (Type 2)
Charger Control Box:	IEC 62196-2
Operating Temperature:	-30°C - 50°C
Rated current & voltage	220V-250V AC; 8A, 10A, 13A
Output power:	1.8kW – 3.0kW
Resistance voltage	2000V
Insulation resistance:	>1000MΩ
Contact resistance:	<0.5mΩ
Fire rating:	UL94 V-0
Dust and moisture ingress:	IP54
Type 2 connector cable length:	4.5m
Charger mains cable length:	0.5m
Protection:	Overheat, overvoltage, overcurrent, overcharge, current leakage, over temperature, lightning

Safety Precautions

- Ensure that every user reads and understands these instructions.
- Use only for charging compatible electric vehicles.
- **Do not change the rate of charge** once the charger has been connected to the EV. Only do this if the Type 2 connector (**F**) is disconnected from the vehicle.
- If using with an extension lead, ensure the extension lead load rating is not exceeded — set the charger to 8A only.
- If using with a reel type extension lead, **ensure the extension lead is fully uncoiled from the reel.**
- Use only with RCBO (residual circuit breaker with overcurrent protection) / RCD (residual current device) protected supply.
- The device contains no user-serviceable parts. Do not attempt to open — risk of electric shock or burn.
- When charging, wait until the charging indicator LED (**D**) lights up red to show that the charging process has started. Do not leave the charger until it is in charging status.
- Keep the instrument clean and well-maintained. Store in the carry-case when not in use.

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