

Viridian EV

User Guide for Viridian EV Charging Stations



Thank you for purchasing a Viridian EV Charging station.

This guide is intended to instruct in the proper use of all models of Viridian Charging stations.

Installation of this equipment should only be carried out by a fully qualified person. Viridian EV accepts no responsibility for damage caused by improperly installed equipment.

For installation instructions see document "Guidance to installers".

Cautions and Dangers

This guide contains several instructions to which the following symbols have been attached. Failure to comply with instruction could result in:



DANGER

Indicates where failure to comply with instructions will cause death or serious injury.



WARNING

Indicates where failure to comply with instructions could lead to death or serious injury.



CAUTION

Indicates where failure to comply with instructions could lead to minor or moderate injury.

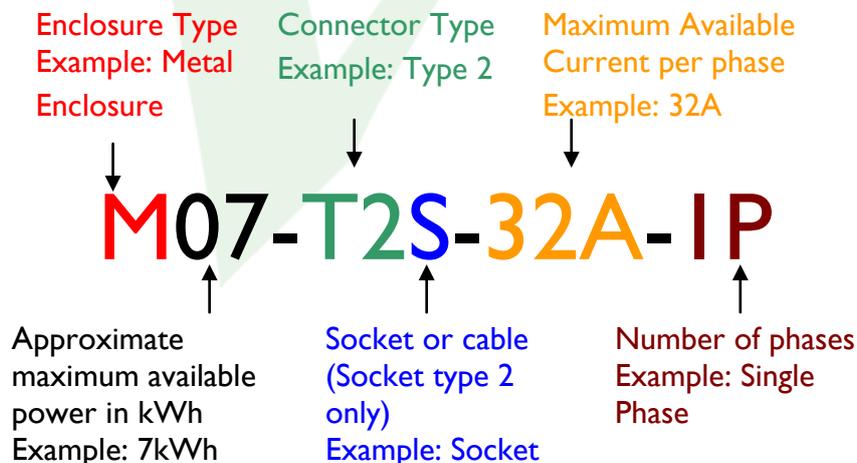
This document is intended to instruct on the use of and general maintenance of all models of Viridian manufactured charging stations (current model numbers at the time of writing listed below). Instructions specific to particular models will be highlighted and clearly marked.

M03-T1C-16A-IP
M03-T2C-16A-IP

M07-T1C-32A-IP
M07-T2C-32A-IP
M07-T2S-32A-IP

M22-T2C-32A-3P
M22-T2S-32A-3P

Understanding the model number of your charging station





WARNING

The charging station is designed for electric vehicle (EV) charging only. It is designed to only allow the flow of electricity once an EV is connected and correct communication is established. Any tampering of the Charging station to allow the flow of electricity at any times other than this will present a risk of electric shock.



CAUTION

The Charging station is covered by a manufacturer's parts and labour warranty. Alterations to the charging station that are not permitted will invalidate this warranty.

Charging Station Features



1. The charging station connects to an EV via the attached vehicle coupler (shown right) or via the socket (shown left). Models fitted with sockets allow the use of a range of approved interconnecting cables.
2. Integrated RCBO
3. Status LED
4. Cover strips
5. Identification label

Model Number	Electric Vehicle Charging Station M07-T2S-32A-1P	
Charging Current	Input: 230V AC 50 HZ Charging Current: Up to 32A	
Serial Number	IP-Code: IP44 S/N:G22999	
	Made in the UK Viridian EV, 42 Elliott Road, Cirencester, GL7 1YS	

Status LED

LED		Description of Operating State
Colour	Status	
NOT LIT	NOT LIT	Charging station is not active, Switched off Possible Cause of issue: <ul style="list-style-type: none"> • No mains power present • RCBO switched off • Fault with charging station
BLUE	FLASHING	Charging station is waiting ready to be connected to an electric vehicle
BLUE	STEADY	An electric vehicle is connected but not charging
GREEN	STEADY	An electric vehicle is connected and charging
RED	STEADY	An electric vehicle is connected. Ventilation during charging is required. This mode is not supported by Viridian Charging Stations so will not charge.
RED	FLASHING	Fault detected, charging is not allowed

Connecting / disconnecting your electric vehicle

To begin a charging session

For charging stations equipped with a built in cable:

Open the charge point flap on the vehicle and insert the vehicle coupler into the charge point. You may need to apply a small amount of force to ensure that the plug is housed firmly within the socket.

For charging stations equipped with a socket:

Lift the hinged flap of the socket on the charging station and fully insert one end of the vehicle interconnecting cable in to the socket.

Take the other end of the vehicle interconnecting cable and insert it into the vehicle as described above.

To stop the charging session

Once the charging session has finished first remove the charging cable from the vehicle. Please note that some vehicle models require you to manual disengage the vehicle's charge point locking system to enable you to do this. If this is the case please consult your vehicle's owners manual.

For charging stations equipped with built in cable:

It is recommended that you store the cable by wrapping it around the charging station.

For charging stations equipped with a socket:

It is recommended that you remove the cable from the charging station and safely store it away when not in use.

Please Note:

The cable cannot be removed from the socket on the charging station whilst it is still in a 'connected' state (solid blue or green status LED). Trying to do so could lead to the cable remaining locked into the charging station when the EV is disconnected.

If the cable should become stuck in the charging station it is recommended to follow the steps below:

- Firmly push the cable into the charging station. In most instances this should be sufficient to release the lock from the connector. You may now attempt to remove the cable from the charging station.
- In the event the above does not release the connector, firmly push the cable into the charging station once again. Disconnect then reconnect the power by switching the RCBO or reconnect and then disconnect the electric vehicle.
- The internal locking mechanism should now have released and the cable should have become freed. In the event that this does not occur repeat the above process ensuring you firmly push the cable fully into the charging station socket each time.

BE AWARE in the event of a power outage or switching off of the internal RCBO during charging, the charge will stop. This may cause the interconnecting cable to remain locked to the charging station, preventing its removal until power to the unit is re-established.

Service and maintenance



DANGER

Contact with live components can result in serious injuries. There are no user-serviceable items within the charging station.

Any repair work should only be carried out by a suitably qualified individual. For information on how to repair the charging station see *Guidance for installers*.

It is recommended that you test the function of the RCBO once a month by lifting the service window and pressing the test button. If the RCBO fails its function test you should immediately stop using the charging station and contact your installer for further assistance.

Cleaning

It is recommended that cleaning of the outside of the charging station should be performed using a damp cloth and a mild cleaning solution.



CAUTION

Cleaning the charging station with a high-pressure water hose is not permitted and could cause water build up within the charging station.

The charging station should not be opened and cleaned internally.

Warranty

Viridian EV provides a 3 year full parts and labour guarantee for operational failure of the charging station. This is the same for charging stations installed under the OLEV home charge scheme and those that are not.

In the event of any operational issues with your Viridian charging station please contact the electrician responsible for the installation of the charging station or your local Viridian distributor.

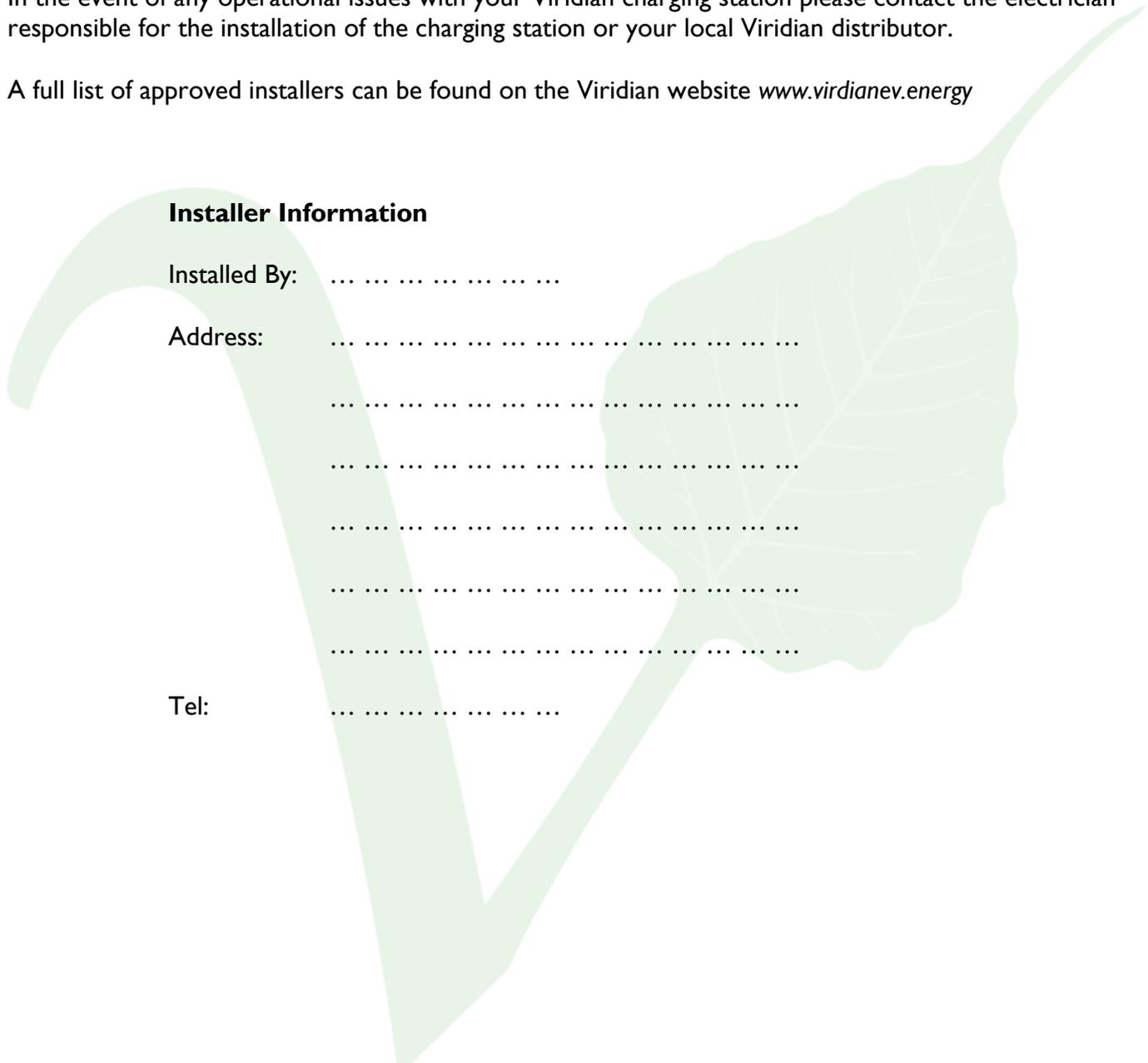
A full list of approved installers can be found on the Viridian website www.viridianev.energy

Installer Information

Installed By:

Address:
.....
.....
.....
.....
.....
.....

Tel:



Trouble Shooting Guide

Problem	Solution		
EV not charging	Check the status LED	- No status LED	Check power to the unit <ul style="list-style-type: none"> - Has the main feed from the consumer unit tripped - Has the internal RCBO tripped
		- LED Flashing Blue	Ensure that the cable is fully inserted to both the charging cable station and EV.
		- LED Flashing red	Disconnect and reconnect the car. If the unit continues flashing seek further advice.
Unable to remove charging cable from charging station	Please see - Connecting / disconnecting your electric vehicle		
EV not charging at the expected rate	Charging stations equipped with built in cable:	The charging rate maybe limited by the following	<ul style="list-style-type: none"> - The vehicle may not be capable of receiving the full maximum power that the charging station can deliver. - The power that the battery can take is reduced the higher the state of charge so will draw less current.
	Charging stations equipped with a socket	The charging rate maybe limited by the following	<ul style="list-style-type: none"> - As above - The charging cable may be rated to less than the maximum current available from the charging station and the current will be automatically reduced accordingly.
I can't plug my charging cable into the charging station	Charging stations equipped with built in cable:	The charging station is not designed to be used with a charging cable. The charging station must be plugged directly into the vehicle via the built in vehicle coupler.	
	Charging stations equipped with a socket	Please ensure you are trying to insert the correct end of the charging cable.	You will need to use a 7-pin, type 2 'Mennekes' plug to connect to the charging station. If both plugs are 7-pins use the smaller of the two.
I can't plug my charging cable into the vehicle	There are various approved types of vehicle sockets. Please ensure you have the right charging station or charging lead to allow you to connect to your chosen vehicle.		

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