



VYNCO

VMEV

EV Charger
User Operating Manual



VMEV Charger

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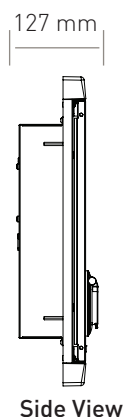
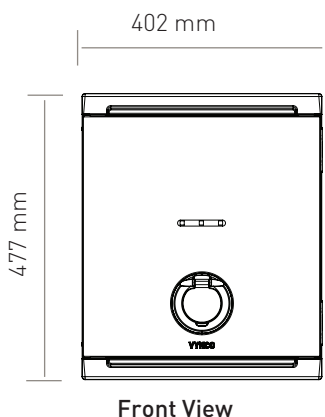
CARTON CONTENTS

The following parts should be inside the carton:

- VMEV Charger
- Installation Manual
- User Operating Manual
- Cover Screw Pack

If any of the parts are missing or damaged, contact your supplier or Vynco for assistance before installing the charger.

DIMENSIONS



CHARGING SAFETY PRECAUTIONS

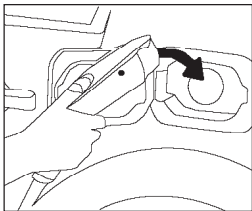
Familiarise yourself with these instructions and the charging instructions for the electric vehicle before using the VMEV Charger.

- Be careful that the charging leads are not left anywhere where they can get damaged, driven over or create a trip hazard
- Leave the charging lead in the vehicle or coiled up around the charger when charging is completed
- Always remove the charging lead from the vehicle first then the VMEV Charger
- Do not modify or alter the VMEV Charger or charging lead in any way
- Do not use with any extension or adaptor lead
- Do not join two or more charging leads together
- Cord extension sets must not be used, only use one charging lead
- Do not use if the charger or charging lead shows signs of damage
- Only use this charger to charge electric vehicles
- Do not use to charge or power any other device
- Do not open the charger without isolating the power
- **CAUTION:** Electric shock danger.

OPERATING INSTRUCTIONS

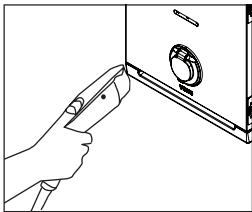
To start charging your electric vehicle:

1. Check the VMEV Charger is powered. The LED should be blue.
2. Plug the charging lead into your electric vehicle.
Always plug in charging lead into the vehicle first.



LED STATE	CHARGER STATUS
BLUE	Power Available
GREEN FLASHING	Charging (Normal Operation)
RED FLASHING	Fault

3. Plug the charging lead into the VMEV Charger.



Follow the vehicle manufacturer's instructions to start the vehicle charging. Some vehicles require the doors to be locked or a charging button to be pressed before the charging will start. For most electric vehicles the charging will start automatically after 20 seconds.

4. Check the LED display.
Check if the VMEV Charger has turned green and is flashing.
Check that the status display on the vehicle shows charging.

OPERATING INSTRUCTIONS

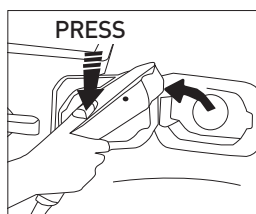
To stop charging your electric vehicle:

1. Check that the VMEV Charger is still charging or has finished charging.

If LED is flashing green – vehicle is still charging. The charging can be stopped if required.

If LED is blue – vehicle has finished charging and the battery should be at 100%.

2. Remove the charging lead from the vehicle.



Follow the vehicle manufacturer's instructions to remove the charging lead.

Some vehicles require the doors to be unlocked or a charging button to be pressed before the lead can be unlocked and removed.

3. Remove the charging lead from the VMEV Charger.

If the plug cannot be easily removed from the VMEV Charger push the plug in firmly and then try to remove the plug again.

4. Check that the LED status on the VMEV Charger has turned blue.

The charger is now ready to charge another vehicle. The plug must be removed from the charger each time before you charge a vehicle. This resets the safety protocols built into the charger.

5. Perform final checks

Check the charging lead has been removed from the vehicle. If there is a problem or a fault follow the steps in the trouble shooting guide in this manual.

MAINTENANCE

The VMEV electric vehicle charger has been designed to operate under normal working conditions and usually does not require any special maintenance during its lifetime. Vynco recommends the following checks to ensure the long-term operation of the VMEV Charger and safety of the users.

INTERVAL	MAINTENANCE	ACTION
At every charge	Visual check that the housing is not damaged, cracked or broken.	If the housing is damaged, contact your installer for a safety check before using.
	Check that the blue LED light is on.	Check that the power is on to the VMEV Charger: - Isolator is turned on - Check that the MCB and RCCB at the switchboard are both on (levers up).
Every 6 months	Clean the charger with a damp cloth (not wet) to remove any dirt, grime and cobwebs.	Do not use cleaning agents or solvents to clean the VMEV Charger as these may damage the plastic housing.
	Press the test button on the RCCB at the switchboard. The RCCB should trip and disconnect the power to the VMEV Charger.	Do not use the charger if the RCCB does not trip. Contact your installer for a safety check.
Yearly	Commercial installations may require that the VMEV Charger is tested and tagged every 12 months.	See the Worksafe NZ EV Charging Safety Guidelines for details or contact your installer.

TROUBLESHOOTING

ERROR	CAUSE	SOLUTION
No LED lights on display	No power available	Check if the MCB and RCCB at the switchboard is ON or Isolator is turned ON.
Blue Display	Power available	Normal operation during charging - no action required.
Flashing Green Display	Vehicle Charging	Normal operation during charging - no action required.
Flashing Red Display	Faulty Charging cable or earth fault in car/lead	Remove lead from car and charger. Inspect cable for damage, if OK retry lead. If LED's return to Flashing Red, remove lead. Try another cable to check the VMEV Charger. If LED's return to Flashing Red, remove lead, isolate VMEV Charger power at switchboard. Leave off for 30 seconds before re-powering and reconnecting lead. If LED's still flashing red, contact your supplier or Vynco for assistance.
Vehicle not charging	Power not on	Check LED display is on and turn power on if required.
	Plug fitted incorrectly	Ensure plug is pushed into VMEV Charger.
	Connector fitted incorrectly	Ensure connector is pushed in to the vehicle inlet.
	Vehicle not detecting plug	Always plug into vehicle first then the VMEV Charger.
	Vehicle charging system not turned on	Check vehicle manual for charging instructions – lock vehicle doors or push charging button on vehicle.
	Fault in charging cable	Try another cable, check cable and plugs for damage.

TROUBLESHOOTING

ERROR	CAUSE	SOLUTION
Charging cable cannot be removed from charger or vehicle	Interlocks in vehicle and charger are engaged	Turn vehicle charging button off or unlock vehicle if required. Always unplug vehicle first then charger.
Charging takes a while to start	Charger checking the safety systems before charging. This check can take 20 secs	Normal operation. Charging will start after 20 secs when safety checks are complete.
Charging won't start after a previous use	VMEV Charger not detecting the lead and vehicle	Unplug the lead from the charger and plug in again to reset. Always plug in vehicle first then charger.

TECHNICAL SPECIFICATIONS

Electrical Ratings	Rated Input Voltage	230 – 240V AC +- 10% - Single Phase
	Frequency	50Hz
	Maximum Power	7.4kW
	Rated Current	32A @ 20°C maximum (permanent connection)
	Standby Power	<6W
VMEV Electrical Protection	RDC-DD Protection fitted. (Residual Direct Current Detecting Device) Type A RCCB is required to be fitted at the switchboard.	RDC-DD fitted internally 6mA DC complying with IEC 62955.
	Additional Internal Protection	Under/over voltage, short circuit, under/over temperature, phase protection
	Equipment Protection Class	Class 1



TECHNICAL SPECIFICATIONS

Operational Ratings	Activation method	Plug in and charging starts automatically after 20 seconds
	LED Status Indication	Blue – Power Available Green Flashing – Charging Red Flashing – Fault
	Charging Method	Mode 3 - Plug in and charging starts.
Compliance	Electrical Standards	IEC 61851-1:2017, IEC 61851-23 (Mode 3) IEC 62955:2018 (RDC-DD)
	Supplier Declaration of Conformity (SDoC)	Available from VYNCO.CO.NZ
Environmental Ratings	Suitable For Use	Indoors only. Restricted access location.
	Protection Rating	IP41
	Working Temperature Range	-30°C to +55°C
	Working Humidity	5% to 95% without condensation
	Maximum Elevation	<2000 metres
	Average Mean Time Before Failure (MTBF)	100,000 operations
	Overall Dimensions (L x W x D)	477mm x 402mm x 127mm
	Installation	Flush wall mount
	Weight	< 6.4kgs

SERVICING

The VMEV Electric Vehicle Charger does not contain any user serviceable parts. If your charger stops working or has broken parts contact your installer or Vynco for assistance.

REPLACEMENT PARTS

Only Vynco supplied replacement parts can be used to repair the VMEV Electric Vehicle Charger. Contact your installer or Vynco for assistance.

WARRANTY

The VMEV is covered by the standard 3 year Vynco Warranty - proof of purchase is required.

Please contact Vynco for details of returns procedure.

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