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Optimus EV Charger

7.4kW (32A), single phase, wall-mounted
AC charge point specification.
July 2023





A commercial & domestic EV charger

- OZEV eligible
- Dynamic load balancing
- Pen protected
- Feature rich app
- Standard installation*
- Comprehensive warranty (3 or 5 years)

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Reliable.
Powerful.
Simple.



Wi-Fi & Bluetooth Optimus is connected to the Go Zero Charge server (4G sim optional extra).	**Leakage Protection** Type B RCD AC 30mA +DC 6mA	**Cable** Tethered (5m or 7.5m) or untethered.
IP54 Protection	**No Earth-Rod**	

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Optimus EV Charger Benefits.

Our Charger	**Fully Compatible**	Our chargers can be used by any EV car manufacturer.
	Reliable	Chargers are always on and monitored every 60 seconds.
Our Software	**Network**	Share the charger on Go Zero's charging network.
	Scheduling	Schedule off-peak charging to lower electricity bills.
	Reservablity	Customers can reserve a space to charge their vehicle.
	Public & Private Mode	Make the EV charger open to the public of private only.
	Tariffs & Memberships	Set up different prices for tariffs or members.
	Analytics	View the chargers usage & your profits in our portal.
	Idles Fees	Applied if a vehicle remains connected after the charging session ends.
Our Team	**Support**	Our dedicated support team are on hand to help 24/7.
	Installation	Our knowledgable team of electricians will install the charger.

Status Light Indicators.

Solid Blue Standby Mode

A solid blue light shows that the charger is on standby but not plugged in to an electric vehicle.



Flashing Green Charging Mode

A flashing green light confirms that the charger is connected and ready or scheduled for charging.

Solid Green Charging Mode

A solid green light confirms that the charger is charging and electrical current is flowing. Once the battery is full, the light will start flashing.



Flashing Red Assistance Mode

A flashing red light signifies that the charger needs attention (see fault code table on next page). An engineer visit may be required.



Issue Codes

LED Indicator	Issue Code	Issue Reason	Troubleshooting Suggestions
RED flashes time 1	1	Leakage	• Check whether the charging connector and its cable are damaged or wet. • Recover after pulling out the adapter.
RED flashes time 2	2	Over current	• Check whether the charging connector is correctly connected. • Check whether the OBC is normal.
RED flashes time 3	3	Ground disconnected	• Charging station is not grounded; input power cable needs to be checked.
RED flashes time 4	4	Overvoltage or undervoltage	• Check whether the input cable is reliable. • Check whether the input voltage is abnormal.
RED flashes time 5	5	Contactor failure or electronic lock failure	• Check whether the contactor connection is reliable. • Check that the electronic lock connection is reliable.
RED flashes time 6	6	CP abnormal	• Check the charging connector and charging socket of EV. • Disconnect and reconnect the charging connector.
RED flashes time 7	7	Electronic lock fault	• Check that the electronic lock connection is reliable.
RED flashes time 10	10	Tamper event	• Check that the charger face cover is open.
RED light flashing fast		Invalid firmware	• Please use the SD card to update the correct firmware.

The Technical Details.

Product information	**Model**	Optimus
	Connector	Type 2 tethered
	Rated power	7.4kWh
	Cable options	Tethered or untethered
	Cable length	Tethered 5m or 7.5m
	Size (LxWxH)	340 x 200 x 116mm
	Weight	<5.5kg (excluding pole/column)
Installation	**Mounting type**	Wall/pole/column (optional)
	Protection level	IP54
Electrical Properties	**IEC applicable standards**	IEC61851, IEC 62196, IEC62955
	Input voltage	AC230V 50/60Hz(L+N+PE)
	Input current	0-32A
	Leakage protection	Type B RCD AC 30mA +DC 6mA
	Output voltage	230Vac +/-10%
	Output current	0-32A
Physical Properties	**Number of connectors**	1
	Circuit breaker	40A
	Connection method	Cable (Type 2 connector)
	Indicator light	LED status logo light
	Communication	OCPP1.6 protocol (JSON format)
Environmental Properties	**Operating temperature**	-30*C - 55*C
	Relative humidity	5% - 95%
	Altitude	< 2001m
	Operating life	>10001 contactor operations
Safety	**Safety protection**	Wi-FI All GSM, over current protection, over voltage protection, under voltage protection, over temperature protection, leakage protection, lightning protection, short circuit protection, unconnected PE ground protection.

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