DURACELL®
ENERGY

DURACELL EV (1P-T)
USER MANUAL

Version 1.0

DURACELL ENERGY

Contents

1 Safety and Warning

Save these instructions. Read all instructions before installing or using the charger.

1. Keep the charger away from explosive or flammable materials, chemicals, vapours, and other hazardous objects.
2. Keep the charger socket clean and dry. If it gets dirty, please wipe it with a clean, dry cloth.
3. Touching the socket core with fingers or foreign objects is strictly forbidden when the power is on.
4. Do not use the charger in case of any device defects, cracks, abrasions, bare leakage and so on. Please contact the professional personnel if any of these conditions occur.
5. Do not attempt to disassemble, repair, or refit the charger. If necessary, please contact the professional personnel. Improper operation will result in device damage, electric leakage, etc.
6. If any abnormal condition happens, please immediately cut off all input and output power supplies.
7. Please ensure the charger is not in use and protected in case of lightning and thunderstorms.
8. Keep children away from the charger.
9. During charging, do not drive the EV. Charge only when the EV is stationary. For hybrid cars, charge only when the engine is switched off.
10. Our packaging materials are environmentally friendly and can be recycled. Please put the packaging in applicable containers to recycle it. Do not dispose of this device with household waste. It should be taken to a suitable facility for recycling electrical and electronic devices. For more detailed information about recycling this device, please contact your local city/town council office or your household waste disposal service.

Warning

The input and output voltages of this device are high voltage, which threatens thesafety of human life. Please strictly observe all warnings on the device and user manual. Unauthorized and non-professional service personnel are forbidden to remove the cover of this device.

2 EV Charger App

There are two different apps you need to download for your charger. Download these on the App store or Google play store. Scan the shown QR codes to download the app.

PureCharger app: For the installer to set up the charger.

PureEV

Apple

Android

Duracell app: For the user, please download this Duracell app to operate the charger.

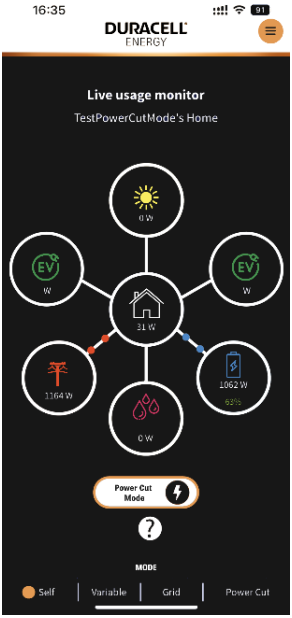
DURACELL ENERGY

DISCLAIMER: QR CODES WILL BE AVAILABLE UPON APPLICATION LAUNCH

Apple

Android

PureCharger

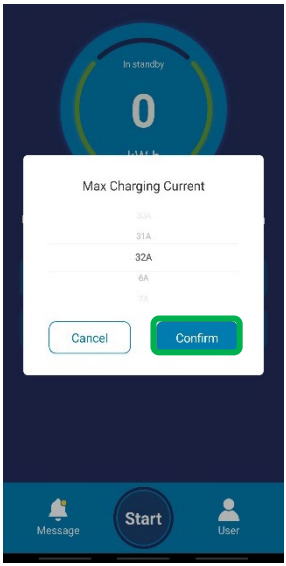


Duracell Energy app

3 Charging Operations on PureCharger App

Post-installation, test the EV Charger through the PureCharger App.

To Start the charging session, select **Max Charging Current**

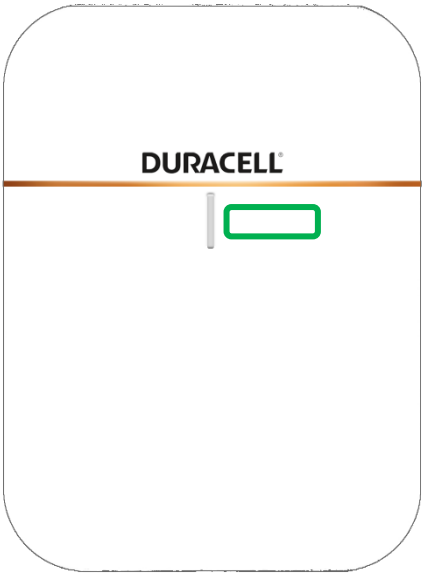


Select your Max Charging Current and select **Confirm**

Select **Start** to begin charging your vehicle

3.1 Charging with RFID Card

- You can also start the charging session by tapping your RFID card on the front of the EV charger.
- Tap it on the area as highlighted by the green rectangle for approximately 3 seconds until a clicking sound is heard. Then the EV Charger should begin the charging session with the maximum possible charge rate.
- Repeat this same process to stop the charging session.

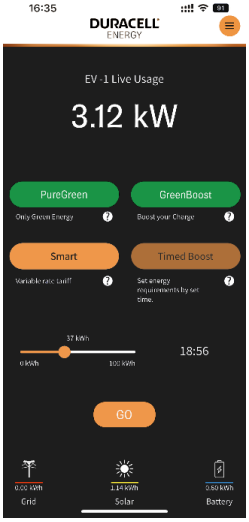


3.2 Charging modes on the Duracell app.

PureGreen	Charge your EV purely from green energy. At least 1.4kW of excess solar is required to initiate a charge.
GreenBoost	Use excess green energy and top up with grid energy to ensure you have enough charge. Must use Timed Boost to set your total kWh required by the set time.
Smart	Automatically integrate your variable rate tariff into your charging schedule to ensure your EV charges at the cheapest possible rate. Must use Timed Boost to set your total kWh required by the set time.
Timed Boost	Use with 'GreenBoost' mode and/or 'Smart' mode to set the amount of minimum energy you require to be added by the set time.

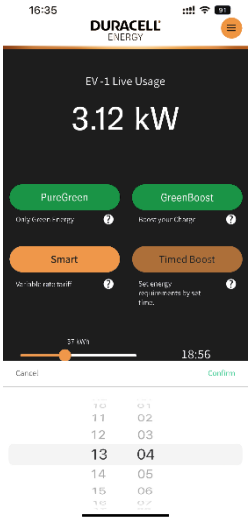
DURACELL ENERGY

TIMED BOOST



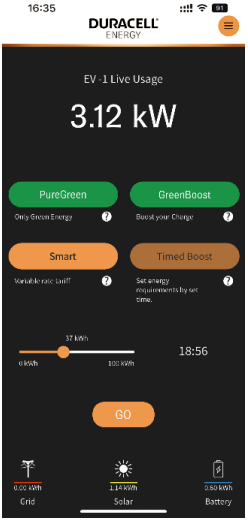
1

Select 'Timed boost'



2

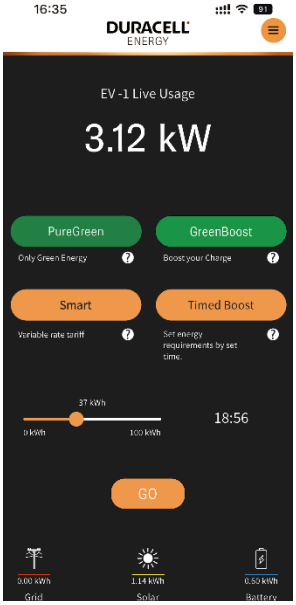
Select the time for when you'd like the charging session to be finished



3

Move the slider to select the amount of kWh you'd like to charge your vehicle

Then select 'Go'

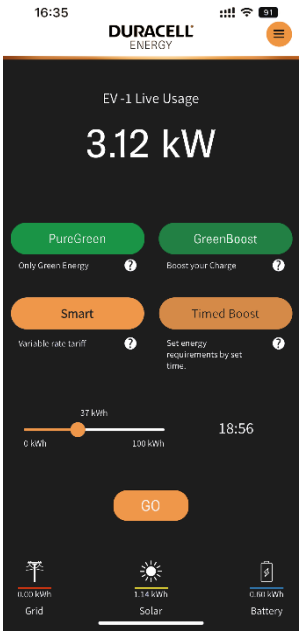


PUREGREEN

To begin the 'PureGreen' charging mode, tap the 'PureGreen' icon

To de-select 'PureGreen' mode, tap the 'PureGreen' icon again

'PureGreen' mode **cannot** be selected alongside any other mode



GREENBOOST + TIMED BOOST

To begin the GreenBoost charging mode, tap the 'GreenBoost' icon

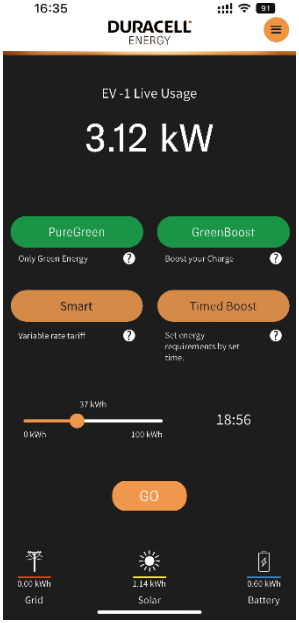
To de-select 'GreenBoost' mode, tap the 'GreenBoost' icon again

To start this charging session, please follow the process shown in section **3.2.1** and adjust your requirements for the slider and time accordingly

'GreenBoost' mode **can** be selected alongside Smart mode

'GreenBoost must be selected alongside 'Timed Boost'

'GreenBoost' mode **cannot** be selected alongside PureGreen mode



SMART + **TIMED BOOST**

To de-select 'Smart' mode, tap the mode again

To start this charging session, please follow the process shown in section **3.2** and adjust your requirements for the slider and time accordingly

'Smart' mode **can** be used with 'GreenBoost' mode

'GreenBoost' mode **cannot** be selected alongside 'PureGreen' mode

4 Troubleshooting

4.1 Indicator Status

State	Description	LED Status
In standby	Normal	Flashing green, 1S on, 4S off
Charging status	Normal	Breathing green, 1S on, 1S off
Plugged gun state	Normal	Breathing yellow, 1S on, 1S off
Software upgrade	Normal	Green light flash
Ground warning	Normal	Flashing yellow, 2S on, 2S off
Relay adhesion	Fault	Red light normally on
Input polarity reverse	Fault	Flashing red, 500ms on, 500ms off, 1 time, 3S off, Cycle
CP fault	Fault	Flashing red, 500ms on, 500ms off, 2 times, 3S off, Cycle
Leakage current fault	Fault	Flashing red, 500ms on, 500ms off, 3 times, 3S off, Cycle
Input terminal overtemperature	Fault	Flashing red, 500ms on, 500ms off, 4 times, 3S off, Cycle
Relay overtemperature	Fault	Flashing red, 500ms on, 500ms off, 5 times, 3S off, Cycle
Under voltage fault	Fault	Flashing red, 500ms on, 500ms off, 6 times, 3S off, Cycle
Over voltage fault	Fault	Flashing red, 500ms on, 500ms off, 7 times, 3S off, Cycle
Overload fault	Fault	Flashing red, 500ms on, 500ms off, 8 times, 3S off, Cycle
Over frequency fault	Fault	Flashing red, 500ms on, 500ms off, 9 times, 3S off, Cycle
Under frequency fault	Fault	Flashing red, 500ms on, 500ms off, 10 times, 3S off, Cycle
Leakage current loop abnormal	Fault	Flashing red, 500ms on, 500ms off, 11 times, 3S off, Cycle

4.2 Fault Code and Resolution

Error Code	Problems	Possible Causes	Solutions
OverVolt	Input over voltage	AC input voltage may be too high.	1. Check the input voltage on your app. 2. If the voltage is over 253Vac for a short time, wait till the grid supply recovers to normal voltage range.
UnderVolt	Input lower voltage	AC input voltage may be too low.	1. Check the input voltage from the back end. 2. If the voltage is under 184Vac for a short time, wait till the power grid recovers to normal voltage range.
OverCurr	Output overload	AC output current may be too large.	1. Shut off the leakage current protection, then switch off power distribution cabinet immediately. 2. Check whether there is low resistance connection between AC output cables of the charger.
OverFreq	Input over frequency	AC input frequency may be too high.	1. Check the input voltage frequency from the back end. 2. If the frequency exceeds 63Hz for a short time, wait till power grid recover to normal voltage range.
UnderFreq	Input lower frequency	AC input frequency may be too low.	1. Check the input voltage frequency from the backend. 2. If the frequency is lower than 47Hz for short time, wait till power grid recover to normal voltage range.
OverTemp	Over temperature	Temperature may be too low inside the charger.	1. Check the surrounding conditions of chargers installed whether there is heating device nearby. Make sure environmental temperature is under 60°c.
Over DCLeak	Over leakage current	Leakage current to the earth may be too high.	1. Shut off the leakage current protection, then switch off power distribution cabinet immediately. 2. Check whether there is broken of AC output cables or low resistance connection to the earth.
PhaseError	Reverse connection	Reverse connection of L/N input cable.	1. Shut off the leakage current protection, then switch off power distribution cabinet immediately. 2. Check if AC input/output cables are normal, and if inverse connection of L/N input cables.
CableRCError	Charging cable connection abnormal	Poor connection of charging cable with EV/Charger.	1. Check if charging cable connection is correct and firm.

Note: If the above problems cannot be solved, please contact: duracellenergy.com/contact

DURACELL ENERGY

CONTACT US

For general inquiries, complaints, questions, or claims, please visit:

duracellenergy.com/contact