



## User Manual

# EV CHARGING MODEL 2



Expert in Safe EV Charging

# • Controller OLED Detailed Display Screen

## Model A IEC 61851 - AC 30mA

| LED Status           |  | LED Light Indicator                                         |
|----------------------|-----------------------------------------------------------------------------------|-------------------------------------------------------------|
| Ready                |                                                                                   | Green                                                       |
| EV Connected         |                                                                                   | Green flash                                                 |
| Connected Error      |                                                                                   | Red                                                         |
| Charging             |                                                                                   | Colorful Lights Flash                                       |
| Reservation charging |                                                                                   | Blue                                                        |
| Charging completed   |                                                                                   | Car side power off Green light flash / Controller power off |
| Charging Error       |                                                                                   | Yellow Flash                                                |

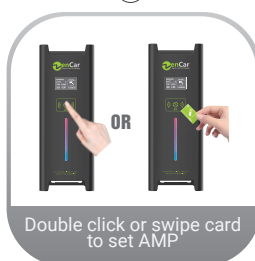


## • Steps Quick Guide

①



②



③



④



## • Specifications

Input: 110V /230V AC 50Hz/60Hz 6A-40A (Max)

Output: 110V /230V AC 50Hz/60Hz 6A-40A (Max)

Operating Temperature:  $-25^{\circ}\text{C}$  to  $+50^{\circ}\text{C}$

IP Class for EVSE enclosure:IP 66

Attention:Max AMP depend on power side plug

## • Controller OLED Detailed Display Screen

### Model B

IEC 62752 AC30mA DC6mA



|         | LED Status                              | LED Light Indicator                     |
|------------------------------------------------------------------------------------------|-----------------------------------------|-----------------------------------------|
|  Yellow | Flash                                   | Fault                                   |
|  Green  | On<br>Slow flash<br>Fast flash<br>Pulse | Ready<br>Connected<br>Error<br>Charging |
|  Red    | Light on                                | Charging                                |

## • Steps Quick Guide

①



②



③



④



## • Specifications

Input: 230V AC 50Hz/60Hz 6A-32A (Max)

Output: 230V AC 50Hz/60Hz 6A-32A (Max)

Operating Temperature:  $-25^{\circ}\text{C}$  to  $+50^{\circ}\text{C}$

IP Class for EVSE enclosure: IP 66

Attention: Max AMP depend on power side plug

## • Controller OLED Detailed Display Screen

### Model C IEC61851 AC30mA

|  | LED Status                              | LED Light Indicator                     |
|-----------------------------------------------------------------------------------|-----------------------------------------|-----------------------------------------|
| ● Yellow                                                                          | Flash                                   | Fault                                   |
| ● Green                                                                           | On<br>Slow flash<br>Fast flash<br>Pulse | Ready<br>Connected<br>Error<br>Charging |
| ● Red                                                                             | Light on                                | Charging                                |

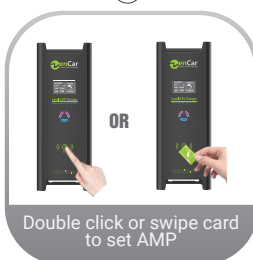


## • Steps Quick Guide

①



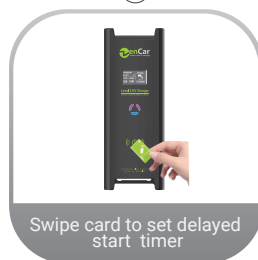
②



③



④



## • Specifications

Input: 380V AC 50Hz/60Hz 6A-32A (Max)

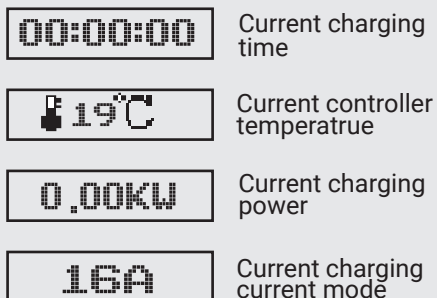
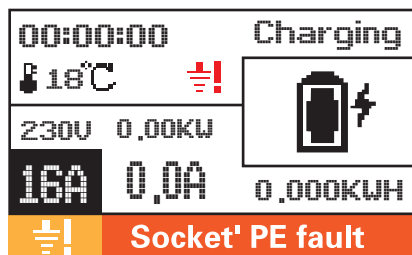
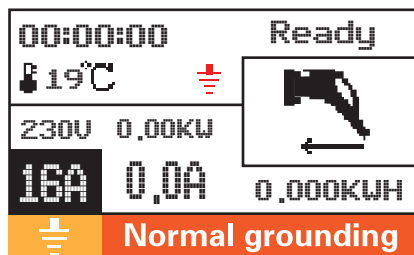
Output: 380V AC 50Hz/60Hz 6A-32A (Max)

Operating Temperature:  $-25^{\circ}\text{C}$  to  $+50^{\circ}\text{C}$

IP Class for EVSE enclosure: IP 66

Attention: Max AMP depend on power side plug

## • Controller OLED Detailed Display Screen



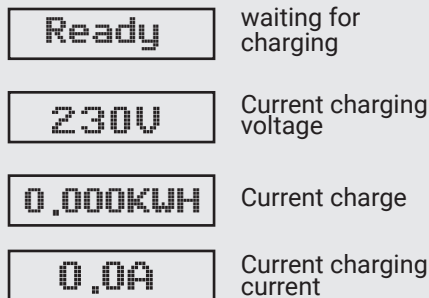
Has connected to the vehicle & waiting for the vehicle to match



Delayed charging



End of charging

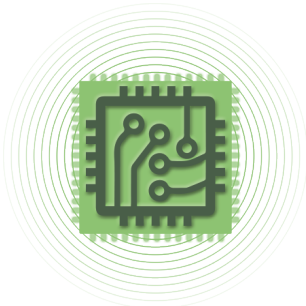


Charging...(Dynamic figure guide)



The car is disconnected, please connect the vehicle (Dynamic figure guide)

## • Circuit board sensor



> 70 °C

Reduce Amp  
Automatically



> 85 °C

Suspend  
charging Automatically



< 75 °C

Automatically  
Resume charging



## • 12 Safety Protections



Vehicle pulsating DC  
leakage protection



Pressure resistant  
flame retardant



Electrostatic  
protection



Protecting  
earthing detection



Crush test



Circuit board  
Temp sensor



Undervoltage  
protection



Lightning  
protection



Overvoltage  
protection



Water-proof  
protection



Intelligent  
Kernel

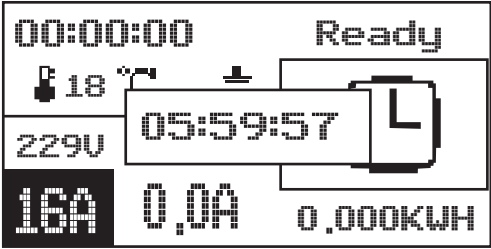
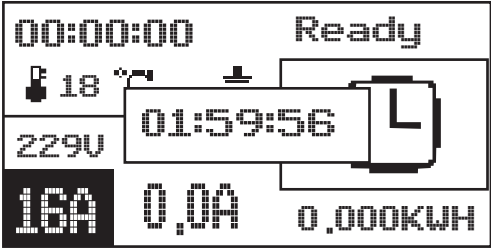


Overcurrent  
protection

## • Product Spec

| The spec of Zencar Evse |                                                                                                           |                                                                           |
|-------------------------|-----------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------|
|                         | Type 1                                                                                                    | Type 2                                                                    |
| Standard                | Sae J1772                                                                                                 | Iec 62196-2                                                               |
| Current                 | 3 Versions:<br>16A: 6A 8A 10A 12A 16A adj<br>32A: 10A 16A 20A 24A 32A adj<br>40A: 16A 20A 24A 32A 40A adj | 2 Versions:<br>16A: 6A 8A 10A 12A 16A adj<br>32A: 10A 16A 20A 24A 32A adj |
| Input                   | 110/230V AC 50Hz/60Hz                                                                                     | 220/380V AC 50Hz/60Hz                                                     |
| OutPut                  | 110/230V AC 50Hz/60Hz                                                                                     | 220/380V AC 50Hz/60Hz                                                     |
| IP Class                | 54                                                                                                        | 54                                                                        |
| Operating Temperature   | -25°C to +50°C                                                                                            | -25°C to +50°C                                                            |

• Save More=Timer Function



Use the Delayed Start Timer to schedule your charging session. This allows you to benefit from off peak rates and saves you money. Swipe the card when the plug is connected to the car to schedule the charging session

- ▶ Model B: [Dbclick to set Timer](#)
- ▶ Model A and Model C: [Swipe card to set timer](#)

| RFID Card       | Timer Status                                |
|-----------------|---------------------------------------------|
| Without Swiping | No Timer; Charging starts immediately       |
| 1st swipe       | Start Charge session after 2 hours          |
| 2nd swipe       | Start Charge session after 4 hours          |
| 3d swipe        | Start Charge session after 6 hours          |
| 4th swipe       | Turn off timer; Charging starts immediately |



### Save These Important Safety Instructions

This document contains important instructions and warnings that must be followed when using your Mobile Connector.

### Warnings

-  Warning: Read this entire document before using the Mobile Connector. Failure to do so or to follow any of the instructions or warnings in this document can result in fire, electrical shock, serious injury or death.
-  Warning: Do not use the Mobile Connector's adapters in any outlet for which they are not designed.
-  Warning: Do not use (or discontinue using) the Mobile Connector if it is defective, appears cracked, frayed, broken or otherwise damaged, or fails to operate.
-  Warning: Do not attempt to open, disassemble, repair, tamper with, or modify the Mobile Connector. Contact agency for any repairs.
-  Warning: Do not use an extension cord, a multi-outlet adapter, a multi-plug, a conversion plug, or a power strip to plug in the Mobile Connector.
-  Warning: Do not disconnect the Mobile Connector from the wall outlet when the vehicle is charging.
-  Warning: Do not plug the Mobile Connector into a damaged, loose or worn power outlet. Ensure that the prongs on the Mobile Connector fit snugly into the wall outlet.
-  Warning: Do not connect the Mobile Connector into a power outlet that is not properly grounded.
-  Warning: Do not expose the Mobile Connector to flammable or harsh chemicals or vapors. Do not use or store the Mobile Connector in a recessed area or below floor level. When using the Mobile Connector in an inside location such as a garage, position the Mobile Connector's main controller at least 18 inches (46 cm) above the floor.
-  Warning: Do not use the Mobile Connector when either you, the vehicle or the Mobile Connector is exposed to severe rain, snow, electrical storm or other inclement weather.

## • Safety Information

-  Warning: When transporting the Mobile Connector, handle with care to prevent damage to any of its components. Do not subject the Mobile Connector to strong force or impact. Do not pull, twist, tangle, drag or step on the Mobile Connector or any of its components.
-  Warning: Protect the Mobile Connector from moisture, water and foreign objects at all times. If any exist or appear to have corroded or damaged the Mobile Connector, do not use the Mobile Connector.
-  Warning: If rain falls during charging, do not allow rain water to run along the length of charge cable, causing the electrical outlet or charging port to become wet.
-  Warning: Do not plug the Mobile Connector into an electrical outlet that is submerged in water or covered in snow. If, in this situation, the Mobile Connector is already plugged in and needs to be unplugged, turn off the breaker before unplugging the Mobile Connector.
-  Warning: Do not touch the Mobile Connector's end terminals with sharp metallic objects, such as wire, tools or needles. Do not forcefully fold any part of the Mobile Connector or damage it with sharp objects. Do not insert foreign objects into any part of the Mobile Connector.
-  Warning: Ensure that the Mobile Connector's charging cable does not obstruct pedestrians or other vehicles or objects.
-  Warning: Do not use cleaning solvents to clean the Mobile Connector.

## Caution

-  Caution: Do not use private power generators as a power source for charging.
-  Caution: Do not operate the Mobile Connector in temperatures outside its operating range of -25 °C to +50°C.
-  Caution: Store the Mobile Connector in a clean dry place in temperatures between -25°C and +85°C.