

1.Safety cautions

Any Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

Note: This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

—Reorient or relocate the receiving antenna.

—Increase the separation between the equipment and receiver.

—Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.

—Consult the dealer or an experienced radio/TV technician for help.

This equipment complies with FCC radiation exposure limits set forth for an uncontrolled environment. This equipment should be installed and operated with minimum distance 20cm between the radiator& your body.

2. Technical parameters

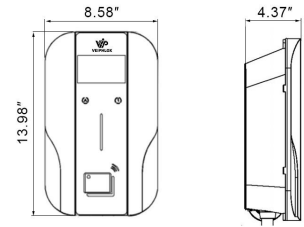
Article	Parameter
Rated voltage	AC 240V
Rated power	9.6kW
Max output current	40A
Cable length	25 feet (7.62m)
Mechanical life	no-load plug in/pull out > 10,000 times
Charging mode	Swiping card / Plug and Play
Human-computer interface	4.3" LCD Screen & RGB LED light panel
Reservation	Starts charging automatically after 0-12 hours
Protection	Over-voltage protection; Under-voltage protection ; Over-current protection; Current leakage protection; Grounding detection; Over temperature protection
Relay bonding	Support relay adhesion detection and alarm; (does not affect the charging, this function under the condition of the grounding with good effective)
System power consumption	Stand-by power consumption : 3W ; Operating power consumption : 6W (global function status)
Shell material	UV resistance & fireproof PC
Protection Level	IP65 (NEMA 4)
Operating ambient temperature	-4°F~122 °F (-20℃ ~ + 50℃)
Storage temperature	-40°F~185 °F (-40℃ ~ + 85℃)
Ambient humidity	5% ~ 95% without condensation
Control box dimension	13.98"×8.58"×4.37"
Connector type	SAE J1772

3. The adjust current & reservation interface

- 3.1 To prevent accidental activation, the buttons(  icons) will only initiate and enter the parameter adjustment mode after being pressed continuously for 2 seconds. The parameter adjust/modify mode exits automatically after 3 seconds of inactivity.
- 3.2 Device automatically start charging at the adjusted current after 0-12 hours.



4. Dimension



5.Wall-mounting installation

Choose a suitable position on the wall and marked, then drill 3 holes and put in plastic expansion pipes. Then use the screws to mount the bracket on the wall. Finally, mount the charging station on the bracket, and lock the screw at the bottom.



Ambient requirements of installation :

- 5.1 Recommend electrical box equipped if EV charger installed in outdoor.
- 5.2 Be sure the ambient temperature within the scope of -4°F~122 °F . Keep away from fire or baking. Avoid high temperature and direct sunlight. Handle gently and avoid dropping.
- 5.3 The installation site and surroundings should be well-ventilated, free from violent vibration / flammable or explosive materials. Avoid exposing to corrosive or humid environments.
- 5.4 The installation site should not be at the low-lying or water-logged area. The altitude cannot exceed 2km.
- 5.5 It is recommended to prioritize wall-mounted installation. If choose pedestal installation, the charger body should be mounted vertically and away from the possible route of vehicles.

6. Connection

- 6.1 The plug is NEMA 14-50P. Plug in NEMA14-50R receptacle and charge successfully.



Electrical Characteristics:

- Power configurable from 0 to 9.6kW:
Maximum Power of 9.6 kW at 40A when connected in 240V (L1+L2+PE).
- Integrated cable with J1772 Type 1 connector.
- Rated Current: 40A.
- Input Cable: 2.62fts (The scope includes the cables necessary for the connection at both ends).
- Output Cable: 25 fts (stretch between charger and charging connector).

7. Usage instructions

7.1 Start charging

7.1.1 Turn on the power supply of the EV charger and then the device is going to self-test.

7.1.2 Plug the charging connector into the EV and ensure the connector is fully seated/locked in place.

7.1.3 Swiping card 1 time at card reader place, it starts charging immediately.

7.1.4 The factory default charging mode is "swiping card". "Plug and play" is the alternative mode.

The two charging modes can be switched.

7.1.5 Specific operation to switch two charging modes:

When the charging station is idle/ free state (the charging connector has been separated from the EV charging port), swipe the card 6 times, then you will hear "beep" sound 5 times. The charging mode has been switched successfully.

7.1.6 Once "Swiping card" mode switched to "Plug and play" mode, it's effect and starts charging immediately once you plug the charging connector to the EV charging port. Operate following 7.1.2

7.1.7 Once "Plug and play" mode switched to "Swiping card" mode, it's effect under power off & on and restart equipment.

7.2 End charging :

7.2.1 After charging, press and hold the button on the head of the charging connector and pull out the connector. It is reminded that the press should continue until the connector is completely pulled out.

7.2.2 The control box features an integrated storage design for neatly storing. Cable can be efficiently wrapped around the box, and the charging connector can be securely inserted into the holder embedded on the side of box.

7.3 Schedule charging (Operate when the device is in standby or idle mode)

7.3.1 Turn on the power supply of the EV charger and then the device is going to self-test. After it completed, the indicator light is steady blue, indicating the EV charger is in normal idle state.

7.3.2 Plug the charging connector to vehicle charging port, and the indicator light is steady green, indicating that the connection is successful.

Press  icon and hold for 2 seconds to activate the button and enter modify mode. Then select schedule time(1 2 3...12 hours) you want.

7.3.3 The mode system will exit automatically after 3 seconds of inactivity. When exits adjust mode system, operate following 7.3.2 if you want modify schedule charging time again.

7.3.4 Swipe card and jump to countdown interface (Charging mode: Swiping card). When the scheduled time arrives, the device will automatically start charging. When the green light slow flashes, indicating it's charging in process.

PS: If charging mode is "Plug and Play", Jump to countdown interface after operation 7.3.2 and the device will automatically start charging when the scheduled time arrives.

7.4 Adjust current (Operate when the device is in standby or idle mode)

7.4.1 Press the current  icon and hold for 2 seconds to activate the button and enter adjustment mode. Then adjust max current output (40A,32A,24A,20A,16A,10A) you want.

7.4.2 The adjust mode system exits automatically after 3 seconds of inactivity. When exits adjust mode system, operate following 7.5.1 if you want adjust current again.

7.5 RFID Card copy to Android phone. Please watch the operation video via this link:
<https://youtube.com/shorts/V1TfDOU1TXE?feature=share>

7.6 OTA upgrade system. Please download WeChat App firstly: <https://www.wechat.com/en/>

Then, upgrade firmware following the operation video via this link:

<https://youtube.com/shorts/mrtOGLnBLwg?feature=share>

8.Troubleshooting

Issue phenomenon	Case reason	Solution
LCD screen is off	Power is off	Check whether the power inlet is energized, and the power switch is on.
Unable to start charging	The charging connector is not fully connected	Ensure the charging connector is fully and securely inserted into the charging port
	The Emergency Stop Button is on and red light slow blink	Twist the red button clockwise until it pops out. The light turns blue.
Charging current lower than rated value	Equipment failure	1.The charging current decrease when it will be in a trickle charging state nearly fully charged. 2.Check the vehicle control panel to see if the current at the vehicle end has been limited or mistakenly set to low current. 3. If not the above situation, please contact customer service for help.
	Vehicle close to fully charged or the charging current has been setting by vehicle	
LCD screen displays an error warning	Major failure	1.Turn the Emergency Stop Button to the right indicated direction to reset this switch. 2.Short circuit: Check whether L1/N is in short circuit. After removing the short circuit doubts, insert the charging connector and reset it. 3.Leakage: Check whether L1/N is well insulated to the ground. 4.Grounding: Check whether the PE cable is grounded.
	General failure	1.Under-voltage: Check whether the AC input voltage is normal. 2.Over-voltage: Check whether the AC input voltage is normal. 3.Over-current: Check whether L/N is short-circuited. After removing the short circuit doubts , plug the connector and reset. 4.Overheat: Unplug the charger connector to stop charging and wait till the internal temperature of the EV charger returns to normal.

9. After-sales service

During the guarantee period, we provide customers with free service due to product quality problem itself. The following non-warranty terms happen, our service will be charged:

10.1 Product failure due to incorrect operation method.

10.2 Product failure or damage due to placed in poor circumstance, improper storage or natural disaster.

10.3 Products were overhauled or append the component by unauthorized person (include user).

10.4 The appearance of product occurred obvious deformations or damage.

10.5 We could accept the product exchange under the surface is clean and unbroken without any damage.

10.6 Product failure or damage under the irresistible flood, fire, lightning stroke or earthquake.The User Manual will be updated periodically, please check our website www.lgt-tech.com for the latest version.

Any questions,please contact with service: support@watt-sz.com

VeiPhlox

Electric Vehicle (EV) Charger

Galaxy Series

4.3” LCD Screen Version

Model: UC102

User Manual

Revised Version: 1.02