



## 1-Phase AC EV Portable Charger



### Quick Installation Guide

DK-1P16-A-050 – Rev 1.0



*Please read this manual carefully before installation and use, otherwise, it may interfere with the normal use of the equipment and even risk causing personal injury.*

## **1. Safety and Points for Attention**

### **1.1. Installation**

- It shall be installed in the place without violent vibration and impact and placed vertically to facilitate ventilation. It shall be installed on noncombustible materials such as metal, or there is a risk of fire.
- Use only on the mains with fault current circuit breaker.

### **1.2. Maintenance**









- It is recommended that routine safety inspection on the charger to be conducted at least once a week.
- Please do not attempt to disassemble, repair, or modify the charger by yourself. If there is a need for maintenance or modification, please contact certified Electrician/Installers. Improper operation may cause damage to the equipment.
- Do not put inflammable, explosive, or combustible materials, chemicals, combustible steam, and other dangerous goods near the charging station, otherwise there is a risk of fire.
- Please keep the charging adapter clean and dry and wipe with a clean, dry cloth if soiled. Do not touch the charging station with your hand when charged.

### **1.3. Operation**

- Strictly forbidden for Children or persons of restricted capacity to approach the charging device to avoid injury.
- Forced charging is strictly forbidden when the electric vehicle fails.
- Electric vehicle can only be charged with the engine is off and stationary. Do not charge in rainy and thunderous weather.
- It is strictly prohibited to use the charger when the charging adapter or charging cables are defective, cracked, worn, broken or the charging cables is exposed. If you find any, please contact the supplier in time.
- In case of rain or thunder, please charge with care.
- DO not charge if the power outlet is damaged, rusted, cracked or loosely connected.
- Before charging, make sure the power plug and outlet are compatible.
- The Green Power LED indicator is always on when the battery is fully charged.
- DO not use the device in extreme temperatures outside the normal operating range.
- The product must be grounded.
- DO not use this unit with an extension cord or adapter.
- DO not insert any fingers into the charging plug.
- If the unit does not work properly in accordance with the operating instructions, do not use this unit. Contact your dealer for a repair or replacement.

- DO not contact metal conductor to prevent electric shock accident.



	Lightning-proof		Flame resistance
	Overvoltage protection		Waterproof IP55
	Overcurrent protection		Leakage protection
	Overheat protection		IEC 62196-2 connector

## 2. Feature

- Compact size design for good portability
- Charging plug meets IEC 62196-2 standard.
- Charging adapter is with IP55 waterproof rating for outdoor usage.
- EV Charger meets IEC 61851 control principle.
- Long durability: Charging adapter at no-load plug in/pull out > 10000 times
- High impact of external force resistance

## 3. Package Content

- 1 x AC Portable Charger
- 1 x QIG

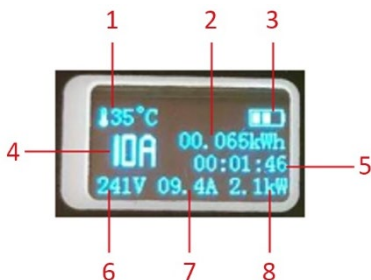
## 4. Technical Specification

<b>Cable</b>	Type	Straight cable
	Length	5m
	Cable Diameter	$3G2.5mm^2+2*0.5mm^2$
	Color	Black
<b>Design Standard</b>	Plug	EN 62196-2 Type 2
	Control Box	EN 61851-1

<b>Electric spec</b>	AC Input	Schuko Input Cable
	Rated voltage	250V
	Rated power	3.7kW
	Rated current	8A/10A/13A/16A (adjustable current)
	No. of phase	1-Phase
	Protection	Over voltage protection, Under voltage protection, Over current protection, Over temperature protection
	Residual current protection	RCD Type-A
	Terminal temperature rise	≤50K
	LCD Display	Showing charging current, voltage, power, charging time, charging status, Internal temperature
	Standard	EN 61851-1: 2019 EN 62752:2016




<b>Environmental spec</b>	Working temperature	-20°C ~ +50°C
	Working humidity	5% -95% non condensed
	Flammability standard	UL94 V-0
	IP Protection	IP55
<b>Mechanical spec</b>	Insertion life cycles	> 10000 times

## 5. Led Screen Description



1	Temperatur for the Control Box	5	Charging Time
2	Transpertised Energy	6	Charging Voltage
3	Connection and charging status	7	Charging Current
4	Charging current limit	8	Charging Power

## 5.1. For the Connection and charging status

1.  Waiting for connection
2.  Charging
3.  Charging full



## 6. How to adjust the max current rating

Current adjustment is in the step of 8A,10A, 13A, 16A. Please touch the button “A” on the portable charger to adjust the max. current rating to set an upper limitation with following steps:




1. Power on the device with Schuko AC connected.  
It would boot up and wait for connection by showing two green indicator light-on. Then you can press the “A” button to adjust the max current rating.
2. After adjustment, you can double-check the current rating on the display screen. Then you can plug the charger to your EV to start the charging



























The control box can only be touch-switched when it is waiting for connection.




During charging process, or when the charging is completed or at the event of failure/error, the touch-switch operation is invalid.

Memory function: The max current setting is stored in the memory of the device even after power-off.

 The control box is in a standby state. The LCD screen displays '124°C', '0A', and '00:00:00'. The 'POWER' and 'CHARGER' LEDs are both lit with a steady green light. The 'FAULT' LED is not lit. A circular button with the letter 'A' is visible on the right side of the device.	<p>While waiting for charging, POWER LED and CHARGER LED light up green at the same time, you can press "A" to adjust the current.</p>
 The control box is in a normal charging state. The LCD screen displays '130°C', '0A', and '00:00:00'. The 'POWER' LED is lit with a steady green light, while the 'CHARGER' LED is blinking green. The 'FAULT' LED is not lit. The 'A' button is visible on the right.	<p>During normal charging, POWER LED is always on and CHARGER LED is blinking, you cannot press "A" to adjust the current during this process.</p>
 The control box is in a post-charging state. The LCD screen displays '130°C', '0A', and '00:00:00'. The 'POWER' LED is lit with a steady green light, and the 'CHARGER' LED is turned off. The 'FAULT' LED is not lit. The 'A' button is visible on the right.	<p>After the charging is completed, POWER LED is always on while CHARGER LED is OFF. When the charging plug and the vehicle charging socket are still connected, please do not press "A" to adjust the current.</p>

## 7. LED Indicator Status Description

Con- dition	POWER	CHARGER	FAULT	Remark
1	 Bright (0.5s)	 Bright (0.5s)	 Bright (0.5s)	Initial mode
2	 On	 On	 Off	Waiting for charging
3	 On	 Flash/1s	 Off	Normal working mode
4	 On	 Off	 Off	Charge complete
5	 On	 Off	 Fault (0.5s on 0.5s off) 1 time	Circuit Board Overheat protection
6	 On	 Off	 Fault (0.5s on 0.5s off) 2 time	Undervoltage Protection
7	 On	 Off	 Fault (0.5s on 0.5s off) 3 time	Overvoltage Protection
8	 On	 Off	 Fault (0.5s on 0.5s off) 4 time	Ungrounded Protection

9	<input checked="" type="checkbox"/> On	<input type="checkbox"/> Off	 Fault (0.5s on 0.5s off) 5 time	Overcurrent Protection
10	<input checked="" type="checkbox"/> On	<input type="checkbox"/> Off	 Fault (0.5s on 0.5s off) 7 time	Leakage Protection
11	<input checked="" type="checkbox"/> On	<input type="checkbox"/> Off	 Fault (0.5s on 0.5s off) 9 time	Communication Fail

## 8. Charging Status Indicator

1. Please check the power cable is without any damage before powering up.
2. Plug the AC Schuko plug to the wall socket.
3. Make sure that the power outlet complies with national standards and that the socket can support max 16A.  
(For long term usage with Schuko connection, it is recommended to set max current on the charger at 13A)
4. Plug the Charging adapter into the socket of your electric vehicle.
5. Make sure that the vehicle connector is fully inserted until it clicks into place.
6. The charger works automatically, the power lights on and the Charger starts to flash.



Waiting for charging



Charging complete

When the charging process is complete:

1. Disconnect the AC power cord.
2. Disconnect the charging cable from the electric vehicle.
3. Cover the charging plug with its protective cover

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