

NEW URBAN DC CHARGING

SUNGROW
Clean power for all

IDC30E



EFFICIENT

Efficiency up to 96.5 %, along with a standby power consumption of 10 W



RELIABLE

IP 65, dust & rain proof, with a service lifetime of over 10 years



FRIENDLY

Extreme low noise of ≤ 50 dB as well as EMC of Class B residential emission



FUTURE-PROOF

Compatibility with new cars and backends, while having an easy integration with PV and battery systems



FAQ

1 DOWN TO BASICS, WHAT ARE THE CORE TECHNICAL PARAMETERS?

Our 30 kW DC charger is able to charge EV batteries between 200 V to 1000 V which covers all the EV car brands to date. Its maximum output current is 80 A. It can resist harsh outdoor conditions such as wet, dusty and salty environments thanks to its IP 65 rating. The electrical emissions are suitable for residential purposes (EMC Class B) and the noise pollution is limited to 50 dB.

2 WHAT IS THE MEANING OF “NOISE LEVEL 50 DB”? HOW SILENT IS THAT IN FACT?

The noise level of 50 dB is adequate for a residential area and is comparably quieter than a regular cooling fan used at home.

3 IS THERE AN OPTION TO CONNECT MY CHARGER TO THE INTERNET?

The network can be connected through 4G/3G (by adding a SIM card), Wifi or Ethernet.

4 WITH WHICH ELECTRIC VEHICLES IS IT COMPATIBLE?

It is equipped with a CCS2 plug which is the principal DC charging standard used throughout Europe. Sungrow EV chargers are compatible with current and future electric car models.

5 WHAT ARE SUNGROW'S LIFETIME AND WARRANTY TERMS FOR THIS CHARGER?

The basic warranty covers 3 years which is more than the average provided within the industry and can optionally be extended up to 10 years as the charger has been designed to resist at least 10 years in extreme outdoor conditions.

6 FOR HOW LONG CAN THE CHARGER PROVIDE 30 KW CONTINUOUSLY?

Under operating ambient temperatures (-35 up to +55 C), all parts of the charger are designed to provide 30 kW continuously.

7 HOW MANY TECHNICIANS ARE REQUIRED TO INSTALL THE CHARGER AND HOW LONG DOES THE INSTALLATION AND COMMISSIONING TAKE?

Two technicians are required to install the charger. After the groundworks have been done, the cabling, mounting and commissioning of the charger will require approximately 1.5 hours.

8 HOW LONG IS THE PREVENTIVE MAINTENANCE PROCESS? HOW OFTEN SHOULD WE MAINTAIN THE CHARGER ?

Around 2h every 6 months on average (depending on the location conditions).



Easy commissioning!
Soon to come
in the APP



9 CAN THE CHARGER BE INSTALLED ON A WALL OR ON A POLE?

The charger can be installed both on the wall and on a pole, which can be purchased optionally.



Khaled Ameer
Product Manager – EV Charging

10 IS IT POSSIBLE TO INSTALL THIS CHARGER IF I DO NOT HAVE 30 KW POWER AVAILABLE?

If you have a 3-phase grid connection you can install it even if it does not support 30 kW as you can easily limit the charging speed down to 1 kW.

ALL DATA AT A GLANCE

Preliminary

Input (AC)	
Input voltage	400 Vac ±10 %
Nominal frequency	50 Hz
Max current input	51 A
Input cable specification	4x10 mm ² + 1x6 mm ²
Power input	3P + N + PE
Output (DC)	
DC output power	30 kW
DC output voltage	200-1000 Vdc, 375-1000 Vdc (In constant power)
Max. current output	80 A
Cable length	5 m
Charge connector	CCS2
Protection	
Insulation monitor	Yes
Over/Under voltage protection	Yes
Over load protection	Yes
Short circuit protection	Yes
Over temperature protection	Yes
Lightning protection	Yes
Overvoltage level	III

Interface	
Touch screen	7-inch color touch screen
RFID card system	ISO / IEC 14443A/B, ISO / IEC 15693
Communication interface	2G / 3G / 4G / Wifi / Ethernet
Communication protocol	OCPP 1.6
General Data	
Dimensions (W*H*D)	800*500*230 mm, 800*500*262 mm (with backplane)
Weight	<55 kg
Mounting method	Wall-mounting / Pole-mounting (optional)
Noise level	50 dB (in rated working condition)
Degree protection	IP 65, IK 10 (Shell), IK 08 (Screen)
Operating ambient temperature range	-35 to 55°C
Allowable relative humidity range	5 - 95 %
Max. efficiency	96,5 %
Max. operating altitude	2000m
Warranty	3 years (extended warranty optional)

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