# GreenFlow DC Charger

Three Phase / Floor Mounted / 240 kW / 480 kW

## Integrated PV-ESS-Charging Solution

Independent EMS platform developed by KSTAR could create an integrated system solution involving all KSTAR devices

## Dynamic Load Management

Dynamic load management and balancing are supported since the overload can be effectively avoided via EMS platform

## Dual-connector HPC

Dual-connector supports simultaneous charging with an ultra-high output power

## 3rd-party Charging Management System

Integrate with mainstream backend platform to provide various functions with easy operation



| CATEGORY | CDA24D | CDA48D |
|---|---|---|
| **General Info** | | |
| Dimensions (W x H x D) | 850 × 2200 × 650 mm | 850 × 2200 × 850 mm |
| Cable Length | 5 M (7 M is optional) | |
| **Input Performance** | | |
| Power Supply | L1+L2+L3+PE+N | |
| Rated Voltage | 400 V AC ±10% | |
| Frequency | 45 ~ 65 Hz | |
| **Output Performance** | | |
| Output Voltage | 150 ~ 1000 V DC | |
| Output Current | Rated 350 A (boost 500 A) | Air cooling: Rated 350 A (boost 500 A)<br>Liquid cooling: Rated 500 A (boost 650 A) |
| Rated Power | 120 kW / 160 kW / 180 kW / 240 kW | 300 kW / 320 kW / 360 kW / 400 kW / 420 kW / 480 kW |
| Charging Module | 30 kW / 40 kW | 30 kW / 40 kW |
| Connector Type | CCS2+CCS2 | |
| **HMI** | | |
| LED Indicator | RGB LED | |
| LCD Display | 15.6" display with 4 buttons | |
| Emergency Stop | Yes | |
| **Communication** | | |
| Payment Method | RFID Card / QR Code / POS Terminal | |
| PLC Communication | DIN70121 and ISO15118 | |
| Ethernet | Yes | |
| Wi-Fi and 4G | Yes | |
| OCPP | OCPP 1.6 J | |
| **Electrical Parameters** | | |
| Efficiency | Max 96% | |
| THD | ≤ 5% (100% load) | |
| Power Factor | ≥ 0.99 (50% ~ 100% load) | |
| Ripple Factor | ≤ ±1% | |
| Noise Emission | ≤ 65 dB | |
| EMC Compliance | Class A | |
| **Safety** | | |
| Energy Meter | Class B (±1% accuracy) with MID certified | |
| Protection Rating | IP54 | |
| Impact Resistance | IK10 | |
| Electrical Protection | Over voltage protection, under voltage protection, overload protection, short circuit protection, open circuit protection, leakage protection, grounding protection, over temperature protection, lightning protection | |
| **Working Environment** | | |
| Installation | Floor mounted on plinth or base | |
| Working Temperature | -30°C ~ +75°C<br>(full power output below 55°C; power derates above 55°C; system will shutdown above 75°C) | |
| Storage Temperature | -40°C ~ +80°C | |
| Humidity | 5% ~ 95% | |
| Altitude | ≤ 2000 m | |