DATENBLATT · SUNGROW

Sungrow IDC480E-C

Ultraschnell-Ladesäule mit Luftkühlung, 240 bis 480 kW Ausgangsleistung

Englisch | Version 4 | 3 Seiten Original | Hersteller: Sungrow

Was ist das für ein Dokument?

Das technische Datenblatt des Herstellers zur Ultra-Schnellladesäule IDC480E-C. Es nennt Leistungsstufen, Ladeanschlüsse, Netzanforderungen und Mechanikdaten; Seite 3 enthält die Angaben zu den Dispenser-Varianten. Grundlage für Planung und Angebotsvergleich.

Das finden Sie darin

- Ausgangsleistung 240, 320, 360, 400 oder 480 kW bei 150–1000 Vdc
- Bis zu vier Fahrzeuge, CCS2, Kabel 5 m (7 m optional), Arm-Kabelmanagement
- Luftkühlung im Gerät, Wirkungsgrad bis 97 %, Netz 380/400 Vac, 3P/N/PE
- Authentifizierung: RFID, Plug & Play, Auto-Charge; optional Plug & Charge, Kartenzahlung
- Schutzart IP65, Korrosionsschutz C5, 10-Zoll-Touchscreen

> Originaldokument von Sungrow. Die folgenden Seiten sind unverändert; Eulektro stellt sie zur Produktinformation bereit. Maßgeblich sind die Angaben des Herstellers.



SUNGROW
Clean power for all

IDC480E-C

240/320/360/400/480kW Isolated air-cooling ultra-fast compact DC charger

RELIABLE AND SAFE

- IP65 protection and C5 anti-corrosion
- Long lifespan over 10 years
- Innovative Isolated air-cooling technology
- Self-designed and inhouse-manufactured power modules

USER FRIENDLY

- Supports multiple authentication and payment options
- Arm cable management system
- Carefree maintenance without replacing dust filter mat

FLEXIBLE APPLICATION

- Adaptive voltage range 150-1000Vdc
- Supports extension dispenser
- Compatibility with PV-ESS system reserved

EFFICIENT AND SMART

- Max. efficiency up to 97%
- 40kW granularity for dynamic load management
- Maximum output capacity of each port up to 480kW



Technical parameters	IDC480E-C
Charging connector	
Connector type	CCS2
Number of EV served	Max. 4
Cable type	Air cooling(all in one) Air cooling or liquid cooling (optional dispenser)
Cable Length	5 m (standard) 7 m (optional)
Cable management system	Arm CMS
EVSE-vehicle protocol	DIN SPEC 70121 ISO 15118
DC output	
DC output power *	240 kW、320 kW、360 kW、400 kW、480 kW
DC output voltage	150 Vdc - 1000 Vdc
DC output current	2 * 400A boost 600A (all in one) 2 * 400A boost 600A or 1 * 500A boost 600A (optional dispenser)
AC input	
Grid voltage	3 / N / PE, 380 Vac / 400 Vac (± 10 %)
Nominal grid frequency	50 Hz / 60 Hz
Earthing system	TN-C / TN-S / TN-C-S / TT
Rated input current	770 A at DC output power 480 kW
Power factor	≥ 0.99
Total harmonic distortion (THDi)	< 5 % at full output power
Overvoltage category	OVC III, DIN EN 60664-1
Standby self-consumption	≤ 70 W
Efficiency	
Max. efficiency	97 %
Protection	
Integrated AC fault current detection	Yes
Overload protection	Yes
Over/under voltage protection	Yes
Over-current protection	Yes
Short-circuit protection	Yes
Leakage current protection	Yes
Over-temperature protection	Yes
Surge protection	Yes
Emergency stop	Yes
User interface	
Display	10-inch color touch screen
Language	English, Spanish, German, French, Dutch (standard) Other languages available by firmware upgrade
Authentication	RFID-card / Plug & play / Auto-charge (standard) Plug & charge / Debit or credit-card (optional)
Firmware update	OTA by iEnergyCharge Web interface
RFID system	ISO / IEC 14443 A / B ISO / IEC 15693
Energy metering	MID-certified meter integrated Eichrecht / PTB-certified meter integrated (optional)
Communication interface	WLAN / Ethernet / 4G
Communication protocol (charger-to-CSMS)	OCPP 1.6J OCPP 2.0.1 (coming soon)
Mechanical data	
Dimensions (W*H*D)	850 mm * 2300 mm * 950 mm
Weight	≤ 950 kg
Installation method	Floor mounted
Environmental data	
Enclosure rating	IP65
Anti-corrosion degree	C5
Mechanical impact protection	IK10 **
Operating ambient temperature range	-35 °C to 55 °C
Allowable relative humidity range	5 % - 95 % (non-condensing)
Max. operating altitude	≤ 2000 m
Cooling method	Smart forced air cooling
Certification and standards	
Certifications	CE, CB, UKCA, RCM, ADQCC, MoIAT, PEA
Compliance	ETSI / EN 300 328, EN 300 330, EN 301 489-1 / 3 / 17 / 52, ETSI / EN 301 908-1 / 13, EN 50665, BS / EN IEC 61851-1, BS / EN IEC 61851-21-2, BS / IEC EN 61851-23 / 24, EN IEC 62311
Warranty	3 years (standard)

© 2025 Sungrow Power Supply Co., Ltd. All rights reserved. Subject to change without notice. Version 4

Technical parameters	Air-cooled dispenser	Liquid-cooled dispenser
DC output		
Cable configuration	Dual cable / Single cable (optional)	Single cable
Cable connection options	400 A + 400 A (600 A Boost)	500 A (600 A Boost)
Output voltage range	200 Vdc - 1000 Vdc	
Connector type	CCS2	
Communication to EV	DIN70121, ISO15118	
Standby power consumption	≤ 35 W	
General data		
Dimensions (W*H*D)	430 mm * 1800 mm * 330 mm	520 mm * 1800 mm * 330 mm
Weight	140kg	121 kg
Cable length	5 m / 7 m (optional)	5 m
Operating temperature range	-35 °C to 55 °C	-30 °C to 50 °C
Operating humidity range	5 % - 95 % (non-condensing)	
Operating altitude	≤ 2000 m	
Operating noise level	≤ 60 dB (A) at 1 m distance / 25 °C, at full output power	
Mechanical impact protection	IK10**	
Enclosure rating	IP65	
Anti-corrosion degree	C5	
User interface		
User authentication	RFID-card / Plug & play / Auto-charge / Plug & charge / Payment terminal (Optional)	
Display	10-inch color touch screen	
RFID system	ISO / IEC 14443A/B / ISO/IEC 15693 / NFC	
Energy meter	MID-certified DC energy meter / Eichrecht-certified DC energy meter (optional)	
Emergency button	Yes	
LED display	Yes	
Cable management system	Yes	
Firmware update	OTA update	
Multilanguage system	English Other languages available by firmware upgrade	

* The output power of IDC480E-C is configurable at power modules level
**The mechanical impact protection degree of HMI is IK08

© 2025 Sungrow Power Supply Co., Ltd. All rights reserved. Subject to change without notice. Version 4

EULEKTRO

Fragen zu diesem Produkt?

Wir beraten Sie zu Auswahl und Planung und kümmern uns um Lieferung, Inbetriebnahme und Betrieb – aus einer Hand, deutschlandweit.

TELEFON **+49 421 17512890**

KONTAKT **eulektro.de/kontakt**

PRODUKT **eulektro.de/produkte/sungrow-idc480e-c**

Eulektro GmbH · Werderstraße 69 · 28199 Bremen · Amtsgericht Bremen, HRB 36822 HB · USt-IdNr. DE343815692

Technische Änderungen und Irrtümer vorbehalten. Stand der Begleitseiten: November 2026.