DATENBLATT · SUNGROW

Sungrow IDC480E

Isolierte Ultraschnell-Ladestation mit Luftkühlung, 240, 360 und 480 kW

Englisch | Version 8 | 3 Seiten Original | Hersteller: Sungrow

Was ist das für ein Dokument?

Das technische Datenblatt des Herstellers zur Ultraschnell-Ladestation IDC480E mit Leistungsschränken für 240, 360 und 480 kW. Es beschreibt CCS2-Dispenser mit Luft- oder Flüssigkühlung, einen Spannungsbereich von 200 bis 1000 VDC und einen Wirkungsgrad von bis zu 96,5 %.

Das finden Sie darin

- Leistungsschrank: 240, 360 oder 480 kW, bis zu 8 Ausgänge, 200 bis 1000 VDC
- Dispenser: bis zu 4 Fahrzeuge gleichzeitig, CCS2, Flüssigkühlung mit bis 480 kW
- Netzanschluss: 3 / N / PE, 400 VAC (± 10 %), Leistungssteuerung in 30-kW-Schritten
- Gehäuse: IP65, Korrosionsschutzklasse C5, IK10, Betrieb von -35 bis 55 °C

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

240/360/480kW Isolated air-cooling ultra-fast charging system

RELIABLE AND SAFE

- Power cabinet with innovative isolated air-cooling technology
- IP65 protection and C5 anti-corrosion
- Long lifespan over 10 years
- Self-designed and own-manufactured power modules
- Carefree maintenance without replacing dust filter mat and cooling liquid in power cabinet
- Eco-friendly with degradable fluid for liquid-cooled dispenser

USER FRIENDLY

- Adaptive voltage range 200-1000 Vdc
- Supports multiple authentication and payment options
- Spring-assisted cable management system for premium user experience
- Barrier-free design for easy access

FLEXIBLE APPLICATION

- Flexible configuration of dispensers, serving up to 4 vehicles simultaneously
- Compatibility with PV-ESS system reserved

EFFICIENT AND SMART

- Max. 480 kW ultra fast charging
- Max. efficiency up to 96.5 %
- Dynamic power allocation by 30 kW granularity
- No power losses with liquid pump in power cabinet



Model	480kW Power Cabinet	360kW Power Cabinet	240kW Power Cabinet
AC input			
Grid voltage	3 / N / PE, 400 Vac (± 10 %)		
Nominal grid frequency	50 Hz / 60 Hz		
Rated input current	770 A	577 A	385 A
Power factor	≥ 0.99		
Standby power	≤ 30 W		
Earthing system	TN-C, TN-S, TN-C-S, TT		
Total harmonic distortion (THDi)	< 5 % at full output power		
Over voltage category	III		
DC output			
Max. output power	480 kW	360 kW	240KW
Output voltage range	200 Vdc - 1000 Vdc		
Max. output current	1600 A	1200 A	800 A
Number of output	Max. 8		
Max. efficiency	96.5 %		
General data			
Dimensions (W * H * D)	900 mm * 2200 mm * 1380 mm		
Weight	1100 kg		
Operating temperature	-35 °C ~ 55 °C		
Operating humidity range	5 % - 95 % (non-condensing)		
Operating altitude	≤ 2000 m		
Noise (typical)	≤ 65 dB (A) at 1 m distance / 25 °C, at full output power		
Mechanical impact protection	IK10 *		
Enclosure rating	IP65		
Anti-corrosion degree	C5		
Communication			
Communication interface	WLAN / 4G / Ethernet		
Communication protocol (charger-to-CSMS)	OCPP 1.6J OCPP 2.0.1 (coming soon)		
User interface			
Emergency stop	Yes		
Display	LED indicator		
Protection			
Over / Under voltage protection	Yes		
Overload protection	Yes		
Over temperature protection	Yes		
Leakage current protection	Yes		
Surge protection	Yes		
Short-circuit protection	Yes		
Certification and standards			
Certifications	CE ,CB , RCM , PEA , UKCA		
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)		

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Model	Air-cooling dispenser-240kW	Air-cooling dispenser-480kW	Liquid-cooling dispenser
DC output			
Cable configuration	Dual cable / Single cable (optional)	Single cable	Single cable
Cable connection options	400 A + 400 A	400 A	500 A
Max. output power	240 kW	480 kW	480 kW
Max. output current	600 A (boost)	600 A (boost)	600 A (boost)
Output voltage range	200 Vdc - 1000 Vdc		
Connector type	CCS2		
Communication to EV	DIN 70121, ISO 15118		
Standby power consumption	≤ 35 W		
General data			
Dimensions (W * H * D)	430 mm * 1800 mm * 330 mm	520mm * 1800 mm * 330 mm	520mm * 1800 mm * 330 mm
Weight	140 kg	125 kg	121 kg
Cable length	5 m / 7 m (optional)	5 m / 7 m (optional)	5m
Operating temperature range	-35 °C ~ 55 °C	-35 °C ~ 55 °C	-30 °C ~ 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		
Protection			
Over / Under voltage protection	Yes		
Overload protection	Yes		
Over temperature protection	Yes		
Leakage current protection	Yes		
Short circuit protection	Yes		
Certification and standards			
Certifications	CE ,CB , RCM , PEA , UKCA		
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		
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*The mechanical impact protection degree of HMI is IK08.

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EULEKTRO

Fragen zu diesem Produkt?

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

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

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