

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 96.5%
- 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 * 400 A boost 600 A (all in one) 2 * 400 A boost 600 A or 1 * 500 A boost 600 A (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		≤ 60 W
Efficiency		
Max. efficiency		96.5 %
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 (over-the-air) 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 Ready for OCPP 2.0.1
Mechanical data		
Dimensions (W*H*D)		850 mm * 2300 mm * 950 mm
Weight		≤ 950 kg
Installation method		Floor mounted
AC cable specification		2 * 185 mm ² per phase, max. ø 34 mm per conductor
Environmental data		
Enclosure rating		IP65
Anti-corrosion degree		C5
Mechanical impact protection		IK10 (enclosure) / IK8 (screen)
Operating ambient temperature range		-35 °C - 55 °C
Allowable relative humidity range		5 % - 95 % (non-condensing)
Max. operating altitude		≤ 2000 m
Cooling method		Smart forced air cooling
Certification and standards		
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)

Technical parameters	Air-cooled dispenser	Liquid-cooled dispenser
DC output		
Cable configuration	Dual cable / Single cable (optional)	Single cable
Cable connection options	250 A + 250 A / 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	250 A dual cable dispenser : 125 kg 400 A dual cable dispenser : 140 kg	121 kg
Cable length	5 m / 7 m (optional)	5 m
Operating temperature range	-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)	
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	Over-the-air update	
Multilanguage system	English Other languages available by firmware upgrade	

* The output power of IDC480E-C is configurable at power modules level.