

IDC480E-C

Preliminary

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

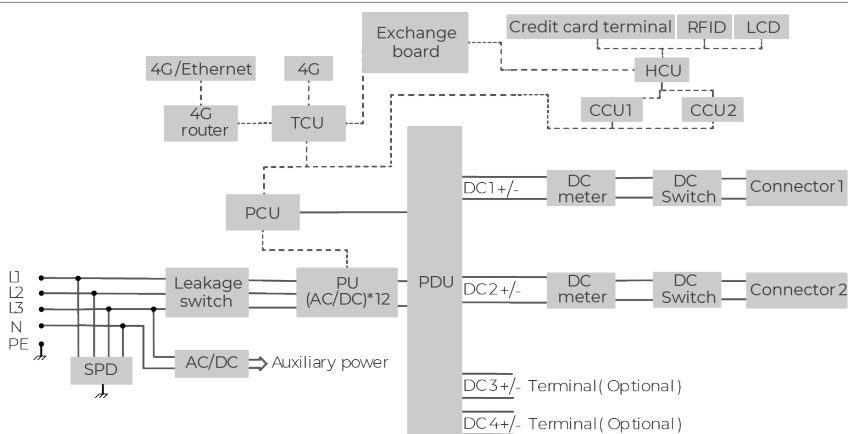
- Adaptive voltage range 150-1000Vdc
- Supports extension dispenser
- Compatibility with PV-ESS system reserved



EFFICIENT AND SMART

- Max. efficiency up to 96.5%
- 40kW granularity for dynamic load management
- Maximum output capacity of each port up to 480kW

CIRCUIT DIAGRAM



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
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)

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

