

IDC480E

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 200-1000Vdc
- 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 8 vehicles simultaneously
- Compatibility with PV-ESS system reserved

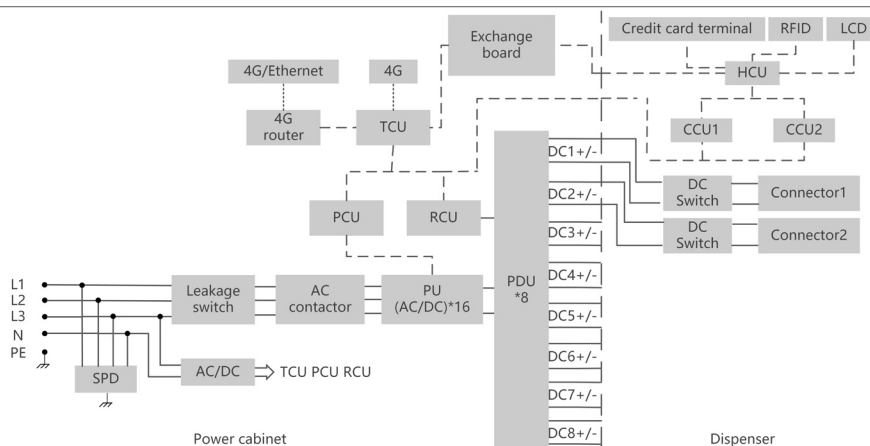


EFFICIENT AND SMART

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



CIRCUIT DIAGRAM



Model	IDC480E Power cabinet
AC input	
Grid voltage	3 / N / PE, 400 Vac (± 10 %)
Nominal grid frequency	50 Hz / 60 Hz
Rated input current	770 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
Overvoltage category	III
DC output	
Max. output power	480 kW
Output voltage range	200 Vdc - 1000 Vdc
Max. output current	1600 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)
Enclosure rating	IP65
Anti-corrosion degree	C5
Communication	
Communication interface	4G / Ethernet / WLAN
Communication protocol (charger-to-CSMS)	OCPP 1.6 J Ready for OCPP 2.0.1
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
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)



Model	IDC480E Air-cooled dispenser	IDC480E 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 (including 500 A boost mode)	500 A
Max. output power	240 kW	480 kW
Max. output current	500 A (boost)	500 A
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	
Protection		
Over/Under voltage protection	Yes	
Overload protection	Yes	
Over temperature protection	Yes	
Leakage current protection	Yes	
Short circuit protection	Yes	
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