PREDIXON
PRO-CHARGE

TECHNICAL DATASHEET

Pro-Charge DC 240

Modular ultra-fast DC charging station · 2 × CCS2

Dual-output 240 kW fast charger with hot-swappable silicon-carbide power modules, field-upgradable within the Pro-Charge DC Series.

Fast today, upgradable tomorrow.



240 kW
DC OUTPUT

2 × CCS2
DYNAMIC SHARING

150–1000 V
DC VOLTAGE

IP65 / IK10
PROTECTION

DOCUMENT
Technical Datasheet
PRX-DS-PC240 · Rev 1.0

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PRODUCT FAMILY
DC Chargers · Fast Chargers

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240 kW	150–1000 V	500 A	> 96.5 %
DC OUTPUT	DC VOLTAGE	PEAK CURRENT	PEAK EFFICIENCY

01 Overview

The Predixon Pro-Charge DC 240 is a dual-output ultra-fast charger for highway service areas, commercial fleets, public fast-charging sites and charging hubs. Six 40 kW silicon-carbide power modules deliver 240 kW to one vehicle or 120 + 120 kW to two, and the modular architecture allows the same cabinet to be upgraded in the field within the Pro-Charge DC Series (120–320 kW).

02 Key Features

Dual CCS2 outputs
Charges two vehicles at once with intelligent dynamic power sharing.

400 V and 800 V ready
150–1000 V DC output for today's 400 V and next-generation 800 V vehicle platforms.

Hot-swappable SiC modules
40 kW high-efficiency modules, replaceable in the field for fast service.

Field-upgradable power
Same cabinet scales across the Pro-Charge DC Series from 120 kW to 320 kW.

Rich user interface
10.1" sunlight-readable touchscreen, RFID/NFC, QR, optional POS and ISO 15118 Plug & Charge.

Built for demanding sites
IP65 / IK10 enclosure, C4/C5 anti-corrosion coating, −35 °C to +55 °C operation.

03 Pro-Charge DC Series – Model Range

Model	Module layout	Max. current	AC input	Charging capability
Pro-Charge 120	4 × 30 / 3 × 40 kW	300 A (500 A peak)	180 A	60 + 60 kW / 120 kW single
Pro-Charge 160	4 × 40 kW	400 A (500 A peak)	240 A	80 + 80 kW / 160 kW single
Pro-Charge 200	5 × 40 kW	500 A peak	300 A	100 + 100 kW / 200 kW single
Pro-Charge 240	**6 × 40 / 8 × 30 kW**	**500 A peak**	**360 A**	**120 + 120 kW / 240 kW single**
Pro-Charge 320	8 × 40 kW hot-swap	500 A continuous / boost	480 A	160 + 160 kW / 320 kW single

04 Technical Specifications

ELECTRICAL CONNECTION & POWER	
Charging power	240 kW (6 × 40 kW SiC modules)
Power sharing	240 kW single / 120 + 120 kW dual, dynamic
DC output voltage	150–1000 V DC
Max. DC output current	500 A peak, dynamic distribution per connector
Connectors	2 × CCS Type 2; air-cooled / liquid-cooled cable options
Cable length	5 m standard; 7.5 m optional with cable management
AC input	3-phase + PE (+ optional N), 400 V AC ±10 %, 50/60 Hz; 360 A
Efficiency · power factor	> 96.5 % peak · > 0.99 at full load (active PFC) · THDi ≤ 4 %
Surge protection · standby	OVC III, integrated Type 2+3 SPD · < 60 W with Eco-mode

PROTECTION & METERING	
Electrical protection	Overcurrent, short circuit, over/under voltage, phase-sequence fault
Insulation / residual current	Built-in IMD + RCD Type B
Short-circuit withstand	50 kA SCCR
Thermal management	Connector temperature sensors; module-level PWM fan control
Emergency stop	Front-panel mechanical E-stop
Energy metering	MID-certified DC energy meter, Class B / PTB compliant

COMMUNICATION & USER INTERFACE	
Authentication	RFID/NFC (ISO 14443A/B, ISO 15693), QR / mobile app, ISO 15118 Plug & Charge
Interfaces	4G/LTE, 10/100 Ethernet (RJ-45), Wi-Fi, RS-485 / CAN bus
Backend protocol	OCPP 1.6-J and OCPP 2.0.1; Smart Charging and Autocharge
Payment	Optional contactless card terminal
Display · status	10.1" sunlight-readable touchscreen · RGB LED status bars

04 Technical Specifications (continued)

ENCLOSURE & ENVIRONMENT	
Protection class	IP65 / IK10
Operating temperature	−35 °C to +55 °C; automatic derating above +45 °C
Storage · humidity · altitude	−40 °C to +70 °C · 5–95 % RH non-condensing · ≤ 2000 m
Enclosure	Galvanized steel + aluminium chassis; C4/C5 anti-corrosion powder coating
Dimensions (H × W × D)	1950 × 750 × 600 mm (excluding plinth)
Acoustic noise	< 65 dBA at 1 m, maximum load

STANDARDS	
Charging	IEC 61851-1, IEC 61851-23, IEC 61851-24
Switchgear · EMC	IEC 61439-7 · IEC 61851-21-2
Vehicle communication	ISO 15118-2/-20, DIN 70121
Conformity targets	CE, RoHS, LVD, EMC, RED

05 Applications

Highway service areas | Fleet and bus depots | Public fast-charging hubs | Fuel stations and retail

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