

SPLIT-TYPE DC CHARGING STACK

Polaris 800

800 kW Distributed DC Charging Stack — 12 Connectors · up to 300 A

Polaris 800 is Starvo's flexible split-type DC charging system: a central 800 kW rectifier cabinet feeding up to 12 connectors on dual-gun charging terminals through a dynamic DC switching matrix. Power is allocated on demand — ultra-fast charging when few vehicles are connected, uniform charging when the site is full. With the power electronics housed away from the parking bays, terminals stay quiet and compact, while the IP54 outdoor-rated cabinet keeps the system running from -25 °C to +50 °C.

**800 kW**12-CHANNEL
POWER MATRIX**12 × CCS2**UP TO 300 A PER
GUN**OCPP 1.6J**LAN · 4G
CONNECTIVITY**200–1000 V**DC OUTPUT
RANGE

01 KEY FEATURES

01

Flexible Power Switching

Dynamic DC output matrix allocates the 800 kW pool across 12 charging points on demand — no stranded capacity.

02

Split, Quiet Architecture

Rectifier cabinet sits away from the bays; slim terminals at the vehicle side reduce noise and enhance charging comfort.

03

Redundant Module Design

Parallel high-frequency LLC power modules with ≤ 5% current imbalance, up to 95% efficiency, and easy module-level maintenance.

04

7" Touch HMI Terminals

ARM-based terminals with 7-inch true-colour touchscreen; start by RFID card, Plug & Play, or app QR code.

05

Smart Billing & Modes

Class 1.0 metering with auto-recharge, by-time, by-battery-level, and by-amount charging via OCPP 1.6J backends.

06

Full Protection Suite

AC over/under-voltage, leakage, DC over/under-voltage, current-limiting, over-temperature, and battery reverse-connection protection.

02 TYPICAL APPLICATIONS

- PUBLIC CHARGING HUBS
- HIGHWAY & REST AREAS
- BUS & LOGISTICS FLEET DEPOTS
- RETAIL & HOSPITALITY
- MIXED-USE DEVELOPMENTS

03 TECHNICAL SPECIFICATIONS

SYSTEM — RECTIFIER CABINET

Model	POLARIS800-12
Rated power	800 kW
Output circuits	12 channels (DC switching matrix)
Input circuits	2 (2 × MCCB)
Input voltage	AC 400 V ±15% · 3P5W
Input frequency	50 Hz ±10%
Max input current	1228 A

DC OUTPUT

Output voltage range	200–1000 VDC
Constant power range	300–1000 VDC
Current per channel	250–400 A (300 A configured)
Peak efficiency	≥ 95%
Power factor	≥ 0.99
Voltage / current accuracy	≤ ±0.5% / ±1%
Current imbalance	≤ ±5%
Ripple / input THD	≤ 1% / ≤ 5%

CHARGING TERMINALS

Terminal model	POLARIS300-02 (double gun)
Configuration	Up to 12 × connectors
Max current per gun	300 A
Charge cable	5 m (optional)
HMI	7" touch LCD screen
Session start	RFID · Plug & Play · QR app
Charging modes	Auto · Time · Level · Amount
Metering	Accuracy class 1.0
Protection	IP55 · -40 °C ... +50 °C
Dimensions (W × D × H)	620 × 300 × 1707 mm

COMMUNICATION

Backend protocol	OCPP 1.6J
Network	LAN · 4G (optional)
Internal bus	CAN 2.0 · cabinet–terminal
Insulation resistance	≥ 20 MΩ

ENVIRONMENT — CABINET

Operating temperature	-25 °C ... +50 °C
Storage temperature	-40 °C ... +70 °C
Humidity	5–95% RH
Altitude	≤ 2000 m
Cooling	Forced air · noise Class II
Protection	IP54 · indoor / outdoor

PHYSICAL & INSTALLATION

Cabinet (W × D × H)	1700 × 800 × 2100 mm
Installation	Floor-standing · on-site
Cabinet foundation	≥ 2000 × 1000 × 200 mm
Terminal foundation	≥ 800 × 500 × 200 mm
Earthing	Grounding resistance < 1 Ω
AC input cable (800 kW)	4 × (185–240 mm²)

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