

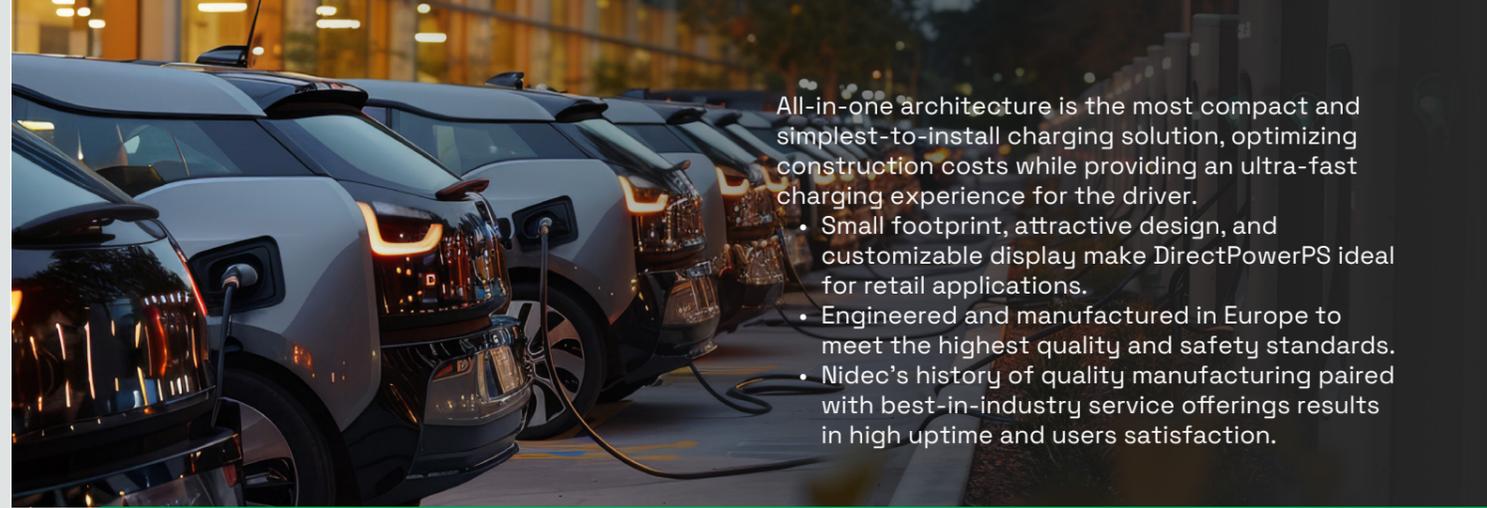
Nidec

Conversion

DIRECTPOWERPS™

DC TOWER
160-400kW





All-in-one architecture is the most compact and simplest-to-install charging solution, optimizing construction costs while providing an ultra-fast charging experience for the driver.

- Small footprint, attractive design, and customizable display make DirectPowerPS ideal for retail applications.
- Engineered and manufactured in Europe to meet the highest quality and safety standards.
- Nidec's history of quality manufacturing paired with best-in-industry service offerings results in high uptime and users satisfaction.

ULTRAFAST CHARGING TAILORED FOR YOU



GENERAL FEATURES

- COMPACT** - Up to 400kW in just 2236 x 998 x 908 mm footprint
- DYNAMIC POWER SHARING** - 160kW and 400kW dynamically assigned to each connector
- SCALABLE** - Modular design up to 160kW or 400kW in 40kW steps
- QUICK SERVICE ACCESS** - Each 40kW power module only weighs 15kg, no special tools required
- ANY VEHICLE** - Wide output range from 150V to 1000V. Compatible with all EVs
- STANDARDS** - OCPP1.6j, 2.0.1, CCS2, MID / LNE / Eichrecht, DIN 70121, ISO15118 Plug and Charge, Autocharge, VDV 261
- CONNECTIVITY** - 4G Cellular, Ethernet connectivity options

VALUE ADDED SERVICES

- DIAGNOSTICS** - Nidec By Your Side (BYS) remote diagnostics system for supervision, maintenance and troubleshooting
- SERVICE** - 24/7 Remote support and on-site service available
- SCALABLE** - Modular design enables availability of custom power rating from 160kW to 400kW upon request
- DYNAMIC LOAD MANAGEMENT** - Power management dynamically assigned across all stations on a site
- CUSTOMIZATION** - Branding colors and logos to match your needs

HARDWARE FEATURES

- 1. WIDE CHOICE** - 2 DC Connectors CCS with and without active cooling
- 2. LONG REACH** - Length of cables: 5,7,10 meters
- 3. EASY TO USE** - Integrated Cable management
- 4. ACCESSIBLE** - Large 15.6" touchscreen for user interaction within easy reach
- 5. PAYMENT READY** - Reader accepts RFID, payment cards & mobile payment
- 6. VISUAL PRESENCE** - Angled door, large 32" display for messaging & advertising, LED lighting for status & visibility

DYNAMIC LOAD & POWER

Dynamic power sharing enables site owners to reduce capital costs and increase profitability. Rapidly charge more vehicles with fewer chargers while efficiently monetizing all available site power.

DYNAMIC POWER: SOLO

All power is sent to up to 160kW or 400kW



DYNAMIC POWER: DUAL

Simultaneous charging of two vehicles. Power to each vehicle can be adjusted dynamically, for example from 160kW to 400kW in the DirectPowerPS DC Tower 400 model



DC Tower 160kW



DC Tower 400kW



TECHNICAL DATA DIRECTPOWERPS DC TOWER 160kW

INPUT	Earthing systems	TT, TN
	Input voltage	400VAC ($\pm 10\%$), 50/60 Hz ($\pm 5\%$)
	Input current	Up to 250A
	Input power	Up to 170kVA
	Protections	Overcurrent, overvoltage Type I+II, integrated surge protection, overtemperature, ground fault including DC leakage protection
OUTPUT	Charge mode	Mode 4 for DC connectors
	Number of outputs	2 DC
	Cable length	5m, 7.5m & 10m (Upto 12m on request)
	Output power	From 80kW to 160kW, expandable with 40kW power modules
	Output voltage	150 V to 1000 V
	Output current	CCS up to 400A
INTERFACE	Dynamic power sharing	The available power is shared between the DC connectors during charging
	Efficiency	97% at full load
	Connection	Ethernet, Modbus TCP, 3G/4G (optional)
	User interface display	15.6" touchscreen and status LED lights
MECHANICAL	Authentication method	Free Vending Mode, RFID, App, Payment terminal with Pin pad (optional) Plug and Charge Ready, AutoCharge
	Protocol	OCPP 1.6J/OCPP 2.0.1
	Stop button	Optional
	Connection/service	Nidec By Your Side (BYS) for remote monitoring and control
	Additional 32" display	For advertising images and videos
	Product dimensions (HxWxD)	Base: 2236 x 800 x 409 mm Total: 2236 X 998 X 748 mm
WORKING AND INSTALLATION CONDITIONS	Net Weight	Up to 492 Kgs
	Material	Corrosion-protected steel
	Customization	Customizable with end user's colours and logos (optional)
	Operating temperature	-25°C +50°C (-30°C as option)
	Installation type	Indoor and Outdoor
	Installation type	Floor mounted, standard concrete foundation available on request
	Protection class	IP54
STANDARDS	Protection against mechanical impact	IK10
	Humidity	From 5% to 95% without condensing
	Maximum operating altitude	2000 m
	Declaration of conformity	CE, UKCA
	Energy metering	MID / LNE / Eichrecht compliant / PTB compliancy DC outlets
STANDARDS	Communication & Charger Standards	IEC 61851-1, IEC 61851-22, IEC 61851-23, IEC 61851-24, DIN 70121, ISO15118, VDV 261
	RFID Standards	ISO14443A/B, ISO18092
	RED Directives	EN 301 489, EN 300 328, EN 301 511, EN 301 908, EN 18031

TECHNICAL DATA DIRECTPOWERPS DC TOWER 400KW

INPUT	Input connection	3 phases N+PE
	Frequency	50/60 Hz (±5%)
	Earthing systems	TT, TN
	Input voltage	400VAC (±10%)
	Input current	Up to 620A
	Input power	Up to 430kVA
	Overvoltage category	Type I+II
Protections		Overcurrent, overvoltage, integrated surge protection, overtemperature, ground fault including DC leakage protection
OUTPUT	Charge mode	Mode 4 for DC connectors
	Number of outputs	2 DC
	Cable length	5m, 7.5m & 10m (Upto 12m on request)
	Output power	From 80kW to 400kW, expandable with 40kW power modules
	Output voltage	150 V to 1000 V
	Output current	DC Tower: up to 500A
	Dynamic power sharing	The available power is shared between the DC connectors during charging
Efficiency		97% at full load
INTERFACE	Connection	Ethernet, Modbus TCP, 3G/4G (optional)
	User interface display	15.6" touchscreen and status LED lights
	Authentication method	Free Vending Mode, RFID, App, Payment terminal with Pin pad (optional) Plug and Charge ready, AutoCharge
	Protocol	OCPP 1.6J/OCPP 2.0.1
	Stop button	Optional
	Connection/service	Nidec By Your Side (BYS) for remote monitoring and control
	Additional 32" display	For advertising images and videos
MECHANICAL	Product dimensions (HxWxD)	Base: 2236 x 800 x 567 mm Total: 2236 X 998 X 908 mm
	Net Weight	Up to 632 Kgs
	Material	Corrosion-protected steel
	Customization	Customizable with end user's colours and logos (optional)
WORKING AND INSTALLATION CONDITIONS	Operating temperature	-25°C +50°C (-30°C as option)
	Installation type	Indoor and Outdoor
	Installation type	Floor mounted, standard concrete foundation available on request
	Protection class	IP54
	Protection against Mechanical impact	IK10
	Humidity	From 5% to 95% without condensing
Maximum operating altitude		2000 m
STANDARDS	Declaration of conformity	CE, UKCA
	Energy metering	MID / LNE / Eichrecht compliant / PTB compliancy DC outlets
	Communication & Charger Standards	IEC 61851-1, IEC 61851-22, IEC 61851-23, IEC 61851-24, DIN 70121, ISO15118, VDV 261
	RFID Standards	ISO14443A/B, ISO18092
	RED Directives	EN 301 489, EN 300 328, EN 301 511, EN 301 908, EN 18031



www.nidec-conversion.com



Info.evci@nidec-asi.com