







ULTRAFAST CHARGING TAILORED FOR YOU



HARDWARE FEATURES

- 1. WIDE CHOICE 2 DC Connectors (CCS with and without active cooling or CHAdeMO) and optional AC Type 2
- 2. LONG REACH Length of cables: 5,7,10 meters
- 3. EASY TO USE Integrated Cable management

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- All-in-one architecture is the most compact and the 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 makes DirectPowerPS ideal for retail applications
- Nidec's history of quality manufacturing paired • with best-in-industry service offerings result in high uptime and driver satisfaction

GENERAL FEATURES

COMPACT - Up to 400kW in just 2236 x 846 x 764 mm footprint DYNAMIC POWER SHARING - 160kW and 400kW dynamically assigned to each connector

SCALABLE - Modular design up to 160kW or 400kW in 40kW steps EASY TO REPAIR - 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, CHAdeMO, AC Type 2, MID / LNE / Eichrecht, DIN 70121, IS015118

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

4.	ACCESSIBLE - Large 15.6" touchscreen for user
	interaction within easu 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



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

			Ū
		Earthing systems	TT
		Input voltage	40
		Input current	Up
	INPUT	Input power	Up
			Ov
		Protections	ov
			(or
		Charge mode	Mo
		Number of outputs	21
		Cable length	5m
		Output power	Fro
		Output voltage	150
	OUTPUT	Output current	CC CH Ty
		Dynamic power sharing	Th ch
		Efficiency	97
		Connection	Etł
		User interface display	15.
		Authentication method	Fre (op
	INTERFACE	Protocol	00
		Stop button	0p
		Connection/service	Nic
		Additional 32" display	Fo
		Product dimensions (HxWxD)	Ba To
		Weight	Up
	MECHANICAL	Material	Со
		Customization	Cu
	•	Noise level	≤ 6
		Operating temperature	-20
		Installation type	Inc
		Installation type	Flo
	WORKING AND	Protection class	IP5
	CONDITIONS	Protection against mechanical impact	IK1
		Humidity	Fro
		Maximum operating altitude	20
		Declaration of conformity	CE
	STANDARDS	Energy metering	M
	U FRIZZI DU	Other standards	IEC ISC

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TECHNICAL DATA DIRECTPOWERPS DC TOWER 160KW

T, TN

400VAC (±10%), 50/60 Hz (±5%)

Jp to 250A

Jp to 170kVA

Overcurrent, overvoltage Type I+II, integrated surge protection, overtemperature, ground fault including DC leakage protection fonly for optional AC output)

Node 4 for DC connectors and Mode 3 for AC connector

2 DC + 1 optional AC

om (up to 10 meters on request)

rom 80kW to 160kW, expandable with 40kW power modules

50 V to 1000 V

CCS up to 400A

CHAdeMO up to 200A

Type 2 up to 32A (optional)

The available power is shared between the DC connectors during charging

97% at full load

thernet, Modbus TCP, 3G/4G (optional)

5.6" touchscreen and status LED lights

Free Vending Mode, RFID, App, Payment terminal with Pin pad optional)

CPP 1.6J/OCPP 2.0.1

Optional

lidec By Your Side (BYS) for remote connection

or advertising images and videos

Base: 2236 x 800 x 409 mm Total: 2236 x 846 x 594 mm

Jp to 435 kg

Corrosion-protected steel

Customizable with end user's colours and logos (optional)

65 dB(A) at distance of 1 m at full power

20°C +50°C (-30°C +50°C as option)

ndoor and Outdoor

loor mounted

P54

K10

From 5% to 95% without condensing

2000 m

CE, UKCA

/ID / LNE / Eichrecht compliant / PTB compliancy DC outlets

IEC 61851-1, IEC 61851-22, IEC 61851-23, IEC 61851-24, DIN 70121, ISO15118

TECHNICAL DATA DIRECTPOWERPS DC TOWER 400KW

	Input connection	3 phases N+PE
	Frequency	50/60 Hz (±5%)
	Earthing systems	TT, TN
	Input voltage	400VAC (±10%)
INPUT	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 (only for optional AC output)
	Charge mode	Mode 4 for DC connectors and Mode 3 for AC connector
	Number of outputs	2 DC + 1 optional AC
	Cable length	5m (up to 10 meters on request)
	Output power	From 80kW to 400kW, expandable with 40kW power modules
OUTPUT	Output voltage	150 V to 1000 V
001701	Output current	DC Tower: up to 500A CHAdeMO: up to 200A Type 2 up to 32A (optional)
	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
	Authentication method	Free Vending Mode, RFID, App, Payment terminal with Pin pad (optional)
INTERFACE	Protocol	0CPP 1.6J/0CPP 2.0.1*
	Stop button	Optional
	Connection/service	Nidec By Your Side (BYS) for remote connection
	Additional 32" display	For advertising images and videos
	Product dimensions (HxWxD)	Base: 2236 x 800 x 567 mm Total: 2236 x 846 x 764 mm
	Weight	Up to 750 kg*
MECHANICAL	Material	Corrosion-protected steel
	Customization	Customizable with end user's colours and logos (optional)
	Noise level	≤ 65 dB(A) at distance of 1 m at full power
	Operating temperature	-20°C +50°C (-30°C +50°C as option)
	Installation type	Indoor and Outdoor
	Installation type	Floor mounted
WORKING AND	Protection class	IP54
CONDITIONS	Protection against Mechanical impact	IK10
	Humidity	From 5% to 95% without condensing
	Maximum operating altitude	2000 m
	Declaration of conformity	CE, UKCA
STANDARDS	Energy metering	MID / LNE / Eichrecht compliant / PTB compliancy DC outlets
	Other Standards	IEC 61851-1, IEC 61851-22, IEC 61851-23, IEC 61851-24, DIN 70121, ISO15118



DirectPowerPS DC Tower 160kW and 400kW | www.nidec-conversion.com





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