

Powerhouse Charging Station with Satellite Dispenser (DC)

The centralized, high-capacity energy hub that orchestrates advanced EV charging systems

VDO's 640 kW Powerhouse Charging Station with two satellite dispenser options is the charging solution for large fleets with high demands on charging speed, flexibility, efficiency and reliability.



KEY FEATURES INCLUDE

- ✓ Maximized charging with 96 % efficiency
- ✓ Up to 8 charging points
- ✓ Dynamic power allocation to enhance flexibility
- ✓ Liquid cooling

TECHNICAL SPECIFICATIONS POWERHOUSE:

AC input

Input voltage:	3 Phase 400 VAC
Input frequency:	50 Hz
Power factor:	≥0.99 (load 100 %); ≥0.98 (load 50 %~100 %)
Input current max:	2 x 550 A

DC output

Protocol:	Mode 4
Output power:	640 kW
Output voltage range:	150 – 1000 V DC (nominal – 750 V)
Output current range:	600 A continuous per outlet
Voltage stabilized accuracy:	±0.5%

Operating environment

Efficiency:	>96%
Operating/ambient temperature:	-25 °C to 60 °C, derating from 45 °C
Storage temperature:	-40 °C to 85 °C
Pressure/altitude:	79 kPa~106 kPa/2000 m
Cooling:	Liquid cooling
Dimensions (HxWxD):	2250 x 1600 x 800 mm
Weight:	1200 kg
According to European Standards:	EN 61439-1, CE in compliance with (2014/30/EU, 2014/35/EU, 2014/53/EU)
Treatment:	Stainless steel + powder coating
Number of charging points:	8 outputs
IP grade:	54

Powerhouse Charging Station with Satellite Dispenser (DC)



TECHNICAL SPECIFICATIONS SATELLITE DISPENSER (250 A OR 500 A)

AC input

Input voltage:	230 VAC
Input frequency:	50 Hz
Input current max:	250 A: 1 A 500 A: 2 A

DC output

Protocol:	Mode 4
Output power:	250 A: 2 x 250 kW 500 A: 2 x 500 kW
Output voltage range:	150 – 1000 V DC
Output current range:	250 A: 2 x 250 A 500 A: 2 x 500 A
Voltage stabilized accuracy:	≤±0.5%

Operating environment

Efficiency:	>96%
Operating/ambient temperature:	-25 °C to 50 °C, derating from 45 °C
Storage temperature:::	-40 °C to 70 °C
Pressure/altitude:	80 kPa~110 kPa
Cooling:	250 A: Air cooling 500 A: Liquid cooling
Dimensions (HxWxD):	2160 x 580 x 315 mm
Weight:	250 A: 175 kg 500 A: 190 kg
According to European Standards:	German Eichrecht, MID, EN 61439-1, CE in compliance with (2014/30/EU, 2014/35/EU, 2014/53/EU), AFIR
Treatment:	Stainless steel + powder coating
Number of charging points:	2 x CCS
CCS cable length:	2 x 5 m
DC power plug:	Mode 4 (IEC-61851-23/24) Combo-2 (DIN 10121)
Start-stop:	RFID card, touch screen
IP grade:	54



Learn more about the VDO charging solutions