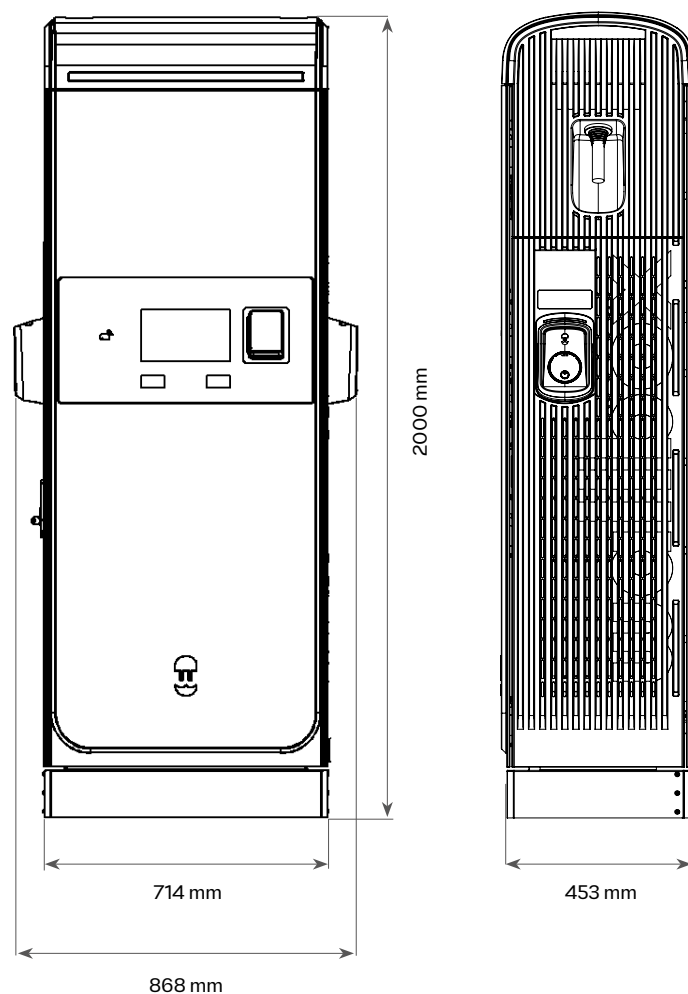


Supernova 240 | 160 | 80



Product	SN 240	SN 160	SN 80
Electrical			
Output Power	240 kW	160 kW	80 kW
Nominal Efficiency	95%		
Power Factor	>0.98		
THD	5%		
Standby Consumption	<60 W		
Output Voltage	150-1000 VDC		
Output Current	400 A	400 A	400 A
Supply Input Voltage Range	400 VAC $\pm$ 10%, 50-60 Hz; 3P+PE		
Max Supply Input Current	350 A at 240 kW DC output power	235 A at 160 kW DC output power	120 A at 80 kW DC output power
Split Charge	Simultaneous charge of 2 outputs		
Electrical Protections	Grid disconnection, Surge Arrestor, Fuses, MCCBs		

Environmental

Environmental Ratings	IP54, IK10, 2000 m altitude
Operating Temperature	-30°C to 50°C
Storage Temperature	-30°C to 70°C
Cooling System	Active air cooling
Humidity	5% to 95% Non-condensing
Operational Noise Level	<68 dBA @ 1 m at ambient temperature

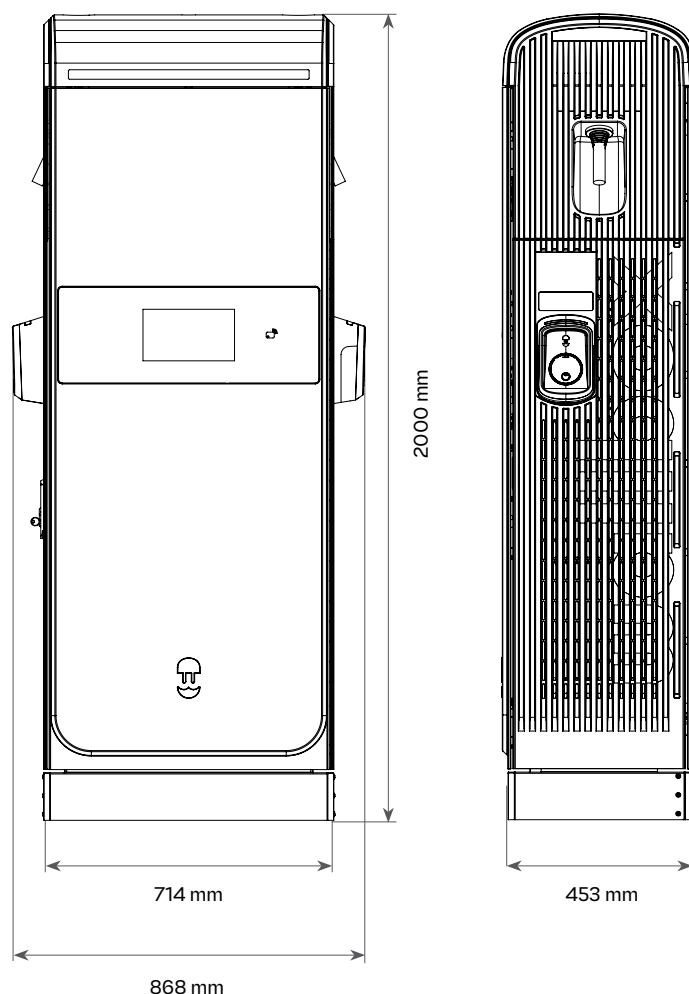
General

DC Connectors	CCS2+CCS2		
Cable Length	5 m		
Cable Management	Retracting the cable to its initial position		
Supernova Footprint	2000x453x714 mm		
Maximum Outer Dimensions	2136x453x1219 mm		
Weight with packaging	430 kg	400 kg	370 kg
Weight without packaging	400 kg	370 kg	340 kg
Branding Options	Company logos/front surface/full charger vinyling		
Charging Compliance	CCS (DIN 70121; ISO15118) IEC 61851-1; IEC 61851-23; IEC 61851-21-2		
Safety Compliance	CE, IEC		
EMC Compliance	CE, IEC		

Interface and Control

Connectivity	Ethernet, 4G/LTE, WiFi, Space for external router (DIN rail)
Backend Communication Protocol	OCPP 1.6J, OCPP 2.0 (Hardware Ready), Plug & Charge (Hardware Ready)
Commissioning Interface	Local (via Ethernet and without extra software) and remote webmanager
Diagnostics	Auto-diagnostics system
User Interface	10" Anti-vandal Colour Touch Display (sunlight readable), LED status lights
Authentication	App (OCPP) / RFID (MI-FARE ISO/IEC14443A/B, ISO/IEC15693, ISO/IEC18000-3, FeliCa, NFC)
Ad-Hoc Payment	Factory fitted Credit Card Reader, various EVA compliant options available for installation
Metering	AC & DC metering. Eichrecht Calibration Law/MID/PTB compliant DC meter available as an option

Supernova 150 | 120 | 60HV



Product	SN 150	SN 120	SN 60HV
Electrical			
Output Power	150 kW	120 kW	60 kW
Charging Protocol	ISO15118, DIN SPEC 70121		
Nominal Efficiency	95%		
Power Factor	>0.98		
THD	5%		
Standby Consumption	<50 W		
Output Voltage	150-1000 VDC		
Output Current	400 A	400 A	150 A
Supply Input Voltage Range	400 VAC $\pm$ 10%, 50-60 Hz; 3P+N+PE		
Max Supply Input Current	235 A at 150 kW DC output power	190 A at 120 kW DC output power	95 A at 60 kW output power
Split Charge	Simultaneous charge of 2 outputs (75/75 kW)	Simultaneous charge of 2 outputs (60/60 kW)	Simultaneous charge of 2 outputs (30/30 kW)
Electrical Protections	Grid disconnection, Surge Arrestor, per output: MCCB		

Environmental			
Environmental Ratings	IP54, IK10, 2000 m altitude		
Operating Temperature	-30°C to 30°C to 50°C de-rated		
Storage Temperature	-30°C to 70°C		
Cooling System	Active air cooling		
Humidity	5% to 95% Non-condensing		
Operational Noise Level	<65 dBA @ 1 m at ambient temperature		
General			
DC Connectors	CCS2+CCS2		
Cable Length	5 m		
Cable Management	Retracting the cable to its initial position		
Dimension with holster	2000x453x868 mm		
Dimension without holster	2000x453x714 mm		
Dimensions with CMS	2136x453x1219 mm		
Weight with packaging	410 kg	380 kg	350 kg
Weight without packaging	380 kg	350 kg	320 kg
Branding Options	Company logos/front surface/full charger vinyling		
Accessibility	Environmental light		
Charging Compliance	CCS (DIN 70121; ISO15118) IEC 61851-1; IEC 61851-23; IEC 61851-21-2		
Safety Compliance	CE, IEC		
EMC Compliance	CE, IEC		
Interface and Control			
Connectivity	Ethernet, 2G/3G/4G/LTE, Space for external router (DIN rail)		
Backend Communication Protocol	OCPP 1.6J, OCPP 2.0 (Hardware Ready), Plug & Charge (Hardware Ready)		
Commissioning Interface	Local (via Ethernet and without extra software) and remote webmanager Schuko 230 V		
Diagnostics	Auto-diagnostics system		
User Interface	10” Anti-vandal Colour Touch Display (sunlight readable), LED status lights		
Authentication	App (OCPP) / RFID (MI-FARE ISO/IEC14443A/B, ISO/IEC15693, ISO/IEC18000-3, FeliCa, NFC)		
Ad-Hoc Payment	Credit Card Reader (various options available)		
Metering	AC MID, DC Meter (per output)		

DATASHEET

Supernova 60

DC Connectors Charging Protocol Cable Length Cable Management

CCS2+CHAdeMO / CCS2+CCS2
ISO15118, DIN SPEC 70121, CHAdeMO
3 m, 5 m^[1]
Ideal for 5 m retracting the cable to its initial position, retrofittable^[1]

Output Power Nominal Efficiency Power Factor THD Standby Consumption Output Voltage Output Current Supply Input Voltage Supply Input Current Electrical Protections

60 kW
95,4%
>0.98
5%
<50 W
150-500 V
150 A
400 V ± 10%, 50-60 Hz
91 A at 60 kW DC output power
Grid disconnection, MCB, Surge Arrestor, Split charge and MCB per output

Power Split

Simultaneous charge of 2 outputs (30 kW each).
Power returns to 60 kW when 2nd car disconnects.^[1]

Environmental Ratings Operating Temperature Storage Temperature Cooling System Operational Noise Level Humidity Dimension with holster Dimension without holster Dimension with CMS Weight without packaging Weight with packaging Branding Options Connectivity Backend Communication Protocol Commissioning Interface

IP54, IK10, 2000 m altitude
-30°C to 50°C
-30°C to 70°C
Active air cooling
< 60 dBA @ 3 m at ambient temperature
5% to 95% Non-condensing
2000x453x868 mm
2000x453x714 mm
2136x453x1219 mm
290 kg
320 kg
Company logos/front surface/full charger vinyling^[1]
Ethernet, 2G/3G/4G/LTE, Space for external router (DIN rail)
OCPP 1.6J
Local (via Ethernet and without extra software) and remote webmanager
Schuko 230 V

Diagnostics

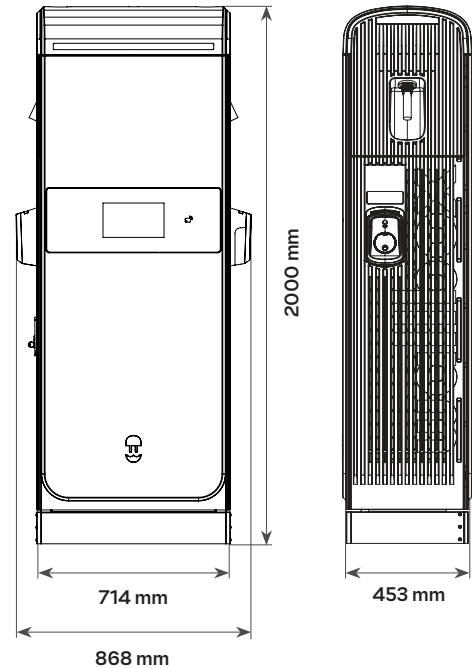
Auto-diagnostics system

User Interface Authentication Ad-Hoc Payment

10" Anti-vandal Colour Touch Display (sunlight readable), LED status lights
App (OCPP) / RFID (MI-FARE ISO/IEC14443A/B, ISO/IEC15693, ISO/IEC18000-3, FeliCa, NFC)
Credit Card Reader (various options available)^[1]

Metering Charging Compliance Safety Compliance EMC Compliance

AC MID, Split charge: DC meter per output
CCS (DIN 70121, ISO15118), IEC 61851-1, IEC 61851-23, IEC 61851-21-2, CHAdeMO 1.2
CE, IEC
CE, IEC



Specifications are subject to change to improve design, function and others.
^[1]Optional.