PUBLIC OPERATIONAL CHARGING STATION • 2×22 KW AC

GEMINI Lite / Gemini / PRO

Public operational dual charging station available in 3 models: Gemini Lite, Gemini, and Gemini PRO.

Gemini Lite • Gemini • Gemini PRO — Die-Casting Aluminum Alloy Casing (IP55 / IK10 • 544 × 315.6 × 194 mm)

Up to 2×22 kW AC Dual Socket

2× Type 2 sockets with shutter (230/400VAC) & RGB status LED rings

MID Class B (±1%) & Eichrecht

Certified billing accuracy • EN 50470-3, PTB 50.7 & REA Document 6-A

8" LED Display & Contactless Pay

700 nit screen (1024×768), EMVCo L1 v3.0 NFC & 3 physical push buttons

ISO 15118 & RJ45×2 Daisy Chain

4G LTE, Ethernet Daisy Chain, RS-485, LoRa 868MHz & OCPP 1.6J

The Charge Grid • Public & Commercial Dual Socket Charging

CE • UKCA • MID Class B • Eichrecht

GEMINI Lite / Gemini / PRO

PUBLIC OPERATIONAL CHARGING STATION • 2×22 KW AC

- Up to 2×22 kW AC Type 2
- MID Class B (±1%) & Eichrecht
- 8" LED Display & Contactless Pay
- ISO 15118 & RJ45 Daisy Chain

Gemini Lite
2×22 kW • Type 2 Shutter • 4G + RJ45×1 • MID Class B

Gemini
2×22 kW • 8" LED Display (700 nit) • RJ45×2 Daisy Chain • NFC Pay

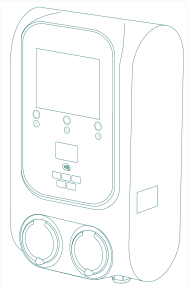
Gemini PRO
2×22 kW • 8" LED Display • ISO 15118 ed.2/20 READY • Eichrecht

GENERAL

Parameter	Gemini Lite	Gemini	Gemini PRO
Charging connector	Type 2 socket with shutter		
Authentication methods	RFID, OCPP Backend, Contactless Payment		
HMI & indication	RGB LED ring per connector, 3 Physical push buttons		
Display	/	**8-inch LED display, max. 700 nit, 1024x768**	
Nominal output voltage	Three phase: 230/400VAC ± 20%		
Maximum output power	**Three phase up to 22x2kW**		
Earthing system	TN/TT		
Protection	UVP, OVP, OCP, Relay Stuck, Over Temperature		
Residual current protection	Integrated 6mA DC per IEC 62955		
Nominal frequency	50/60Hz		
Metering accuracy	MID Certified Class B, ±1% Accuracy		

The Charge Grid • Public Operational Dual Socket Architecture

Designed for commercial parking hubs, fleet depots, and public street charging with dual shuttered Type 2 sockets, RGB status rings, and integrated contactless payment reader.



CONNECTIVITY

Parameter	Gemini Lite	Gemini	Gemini PRO
Vehicle communication	IEC 61851-1 ed. 3 (2017)		**IEC 61851-1 ed. 3 (2017)** **ISO 15118 ed.2/20 READY**
RFID authentication	ISO/IEC 14443A/B, 13.56 MHz, Maximum length: 7 bytes		
Connectivity to backend	4G LTE-FDD: B1/3/5/7/8/20/28 Ethernet: RJ45*1	4G LTE-FDD: B1/3/5/7/8/20/28 Ethernet: RJ45*2 Daisy Chain	
Backend protocol	OCPP 1.6(JSON) 2nd edition		
Connectivity to EMS/Meter	RS-485, LoRa 868MHz		
Contactless Payment	EMVCo. L1 v3.0 Certified, Desfire protocol EV2/3, ISO18092: Support NFC Protocol		
SIM card	User SIM: 1FF (full size) SIM, Settable APN user name and password		

LOAD MANAGEMENT OPTIONS

Dynamic Load Sharing	Dynamic Load Sharing between 2 sockets
OCPP Backend Load Management	OCPP 1.6J Smart Charging profiles via The Charge Grid Backend
Hybrid Dynamic Load Management	Connect to HDLM Kit (100A / 400A / 600A) via RS-485 or Wireless LoRa 868MHz

OPERATING CONDITIONS

Operating temperature	-30°C ~ 50°C with derating mechanism (22kW*1, 11kW*2) -30°C ~ 45°C with derating mechanism (22kW*2)
IK protection (mechanical impact)	IK10 (Housing), IK08 (Display)
Relative humidity	5% ~ 95%
Operating altitude	2000m
Electrical safety class	Class I
Standby power	17.5W
Degree of protection (housing)	IP55
EMC Environmental conditions	Class B residential according to IEC 61851-21-2

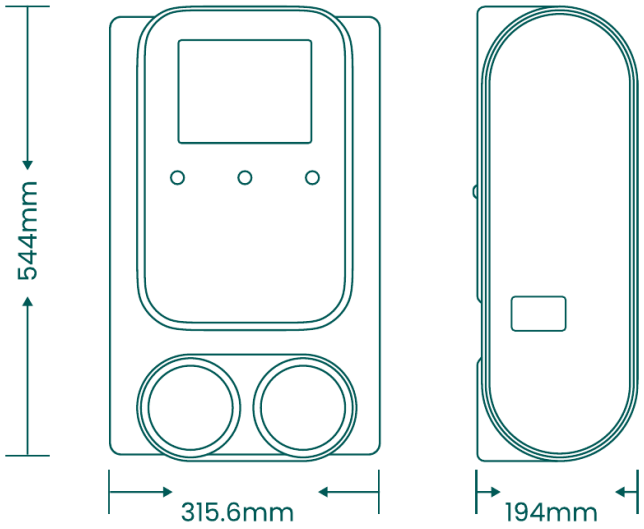
COMPLIANCE

Certificate	**CE, UKCA**
Safety	EN 61851-1, EN 62955, EN 62196, EN 61439
EMC	EN 61851-21-2:2021, EN 301489-1 V2.2.3:2019, EN 301489-3 V2.3.2:2023, EN 301489-17 V3.2.5:2022, EN 301489-52 V1.2.1:2021
RED	EN 300328 V2.2.2:2019, EN 300330 V2.1.1:2017, EN 301908-1 V15.1.1:2021, EN 301908-13 V13.2.1:2022, EN 300220-1 V3.1.1:2017, EN 300220-2 V3.1.1:2017
MID	EN 50470-3, EN 62053-23
Eichrecht	REA Document 6-A, PTB 50.7
Health	EN 62311:2008, EN 50663:2017, EN 61000-6-2:2016, EN 61000-6-3:2006
RoHS	Directive 2011/65/EU & (EU)2015/863 Annex II
UKCA	UK Smart Charging Legislation, BS 7671:2018+A2:2022

MECHANICAL

Mounting options	Wall mounted, Freestanding Pole
Material	Die-casting Aluminum Alloy
Casing (exterior) dimensions	544 x 315.6 x 194 mm (H x W x D) (544x315.6x194)
Packaging dimensions	720 x 435 x 340 mm (H x W x D)
Weight	18.5 kg

DIMENSIONS & TECHNICAL DRAWING (544 × 315.6 × 194 MM)



COMPATIBLE ACCESSORIES

HDLM Kit 100

HDLM Kit for NEX, Gemini • 3P Meter Unit, 3 CT Clamps, 100A, 1:5000

92.6 × 72 × 71.5 mm (Meter) | 50 × 31 × 36 mm (CT)

HDLM Kit 400

HDLM Kit for NEX, Gemini • 3P Meter Unit, 3 CT Clamps, 400A, 1:4000

92.6 × 72 × 71.5 mm (Meter) | 71 × 39 × 46 mm (CT)

HDLM Kit 600

HDLM Kit for NEX, Gemini • 3P Meter Unit, 3 CT Clamps, 600A, 1:6000

92.6 × 72 × 71.5 mm (Meter) | 82 × 42.5 × 58 mm (CT)

Pole Model 1

Enclosed pedestal for Gemini, internal protection cabinet with DIN Rail, optional pre-installed protection

Dimensions (H×W×D): 1658 × 355 × 244 mm

Metal Foundation

Metal foundation for floor mounting Gemini Pole

Dimensions (H×W×D): 506 × 345 × 230 mm

Pole Model 2

Enclosed pedestal for Gemini, internal protection cabinet with DIN Rail, optional pre-installed protection

Dimensions (H×W×D): 1450 × 320 × 239 mm

Pole Model 2 (FR)

Enclosed pedestal for Gemini with Type E socket, internal protection cabinet with DIN Rail

Dimensions (H×W×D): 1450 × 340 × 239 mm

Pole Model 2 (HAK)

Enclosed pedestal for Gemini with HAK and pre-installed protection components

Dimensions (H×W×D): 1450 × 320 × 490 mm