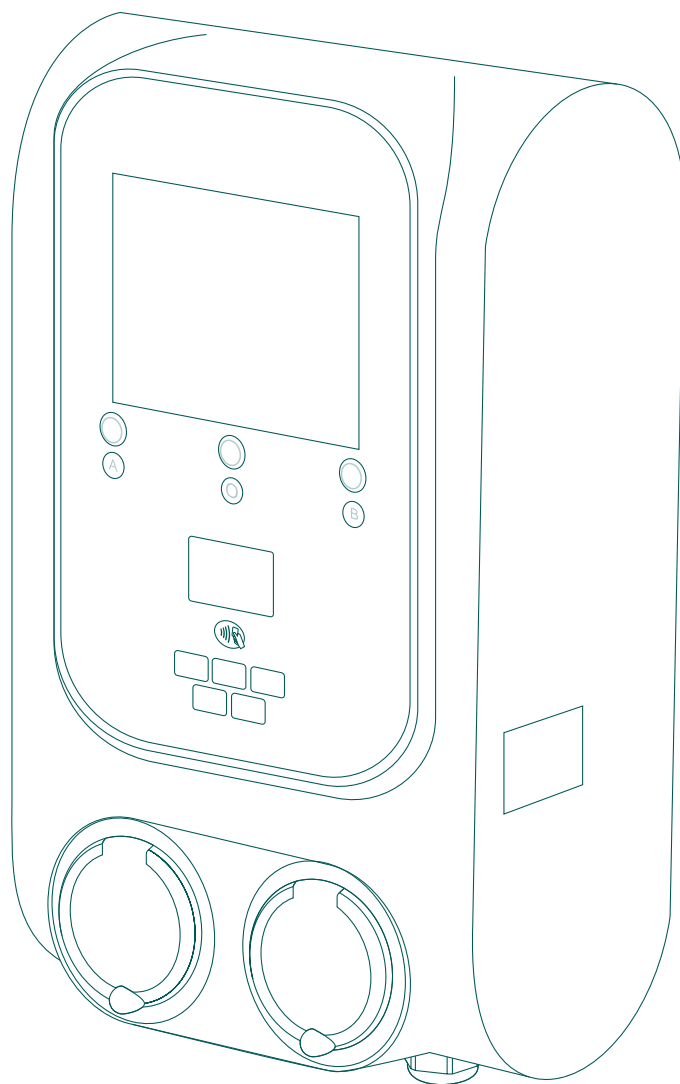


Rev 2.0

2025

GEMINI

Technical Datasheet

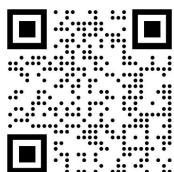


Gemini

Gemini Lite

Gemini PRO

PUBLIC OPERATIONAL
CHARGING STATION



www.raedian.com

RAEDIAN

Technical Specifications

	Gemini Lite	Gemini	Gemini PRO
General			
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		

Connectivity			
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		

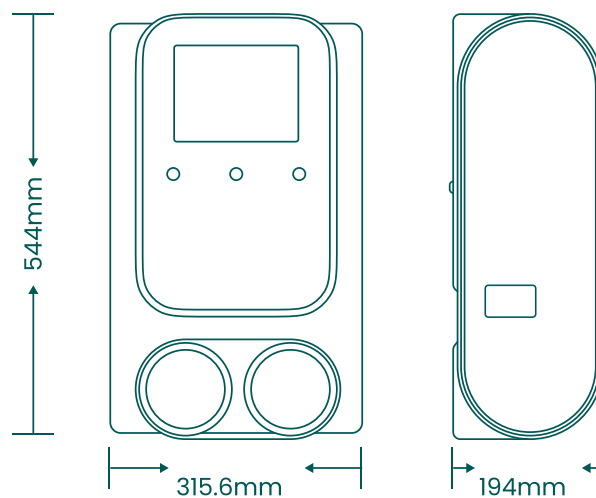
Load Management Options	
• Dynamic Load Sharing between 2 sockets • OCPP backend load management • Hybrid Dynamic Load Management	

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
Environmental conditions	Indoor / outdoor use
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)
Packaging dimensions	720 x 435 x 340 mm (H x W x D)
Weight	18.5 kg



Accessories



HDLM Kit 100

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

Dimensions (H x W x D)

92.6 x 72 x 71.5 mm (Energy Meter)
50 x 31 x 36 mm (CT)



HDLM Kit 400

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

Dimensions (H x W x D)

92.6 x 72 x 71.5 mm (Energy Meter)
71 x 39 x 46 mm (CT)



HDLM Kit 600

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

Dimensions (H x W x D)

92.6 x 72 x 71.5 mm (Energy Meter)
82 x 42.5 x 58 mm (CT)



Pole Model 1

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

Dimensions (H x W x D)

1658 x 355 x 244 mm

Accessories



Metal Foundation

Metal foundation for floor mounting Gemini Pole

Dimensions (H x W x D)

506 x 345 x 230 mm



Pole Model 2

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

Dimensions (H x W x D)

1450 x 320 x 239 mm



Pole Model 2 (FR)

Enclosed pedestal for Gemini with type E socket, internal protection cabinet with DIN Rail, with optional pre-installed protection components

Dimensions (H x W x D)

1450 x 340 x 239 mm



Pole Model 2 (HAK)

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

Dimensions (H x W x D)

1450 x 320 x 490 mm