PRI:LOGY®
SYSTEMS GMBH

PRI:CHARGER

WALLBOX SERIES FOR PRIVATE AND PUBLIC CHARGING

PRI:CHARGER

PLUG & CHARGE WALLBOX SERIES

PRI:CHARGER wallboxes, which can be scaled in order to meet different application requirements, perform safe and reliable charging of electric vehicles in private, semi-public and also in public areas.

Beside authorisation via RFID, PRI:CHARGER allows implementation of a payment terminal for cashless and also contactless payment with major bank and credit cards.

The wallboxes support Plug & Charge as well as easy and swift setup. Furthermore, excess electricity generated by a local photovoltaic station can be utilised for charging.

PRI:CHARGER facilitates memorisation and accounting of all charging operations for typical application areas such as public parking lots, semi-public or commercial parking areas of companies, hotels, restaurants and many more. A 4G modem can be implemented as an option.

The front sides of the wallboxes can be individually designed.

IN COMPLIANCE WITH CALIBRATION LAWS

Together with a backend system, PRI:CHARGER stations support independent public accounting of the charging power. All relevant metering data is displayed at the wallbox.

INTEGRATED LOAD MANAGEMENT

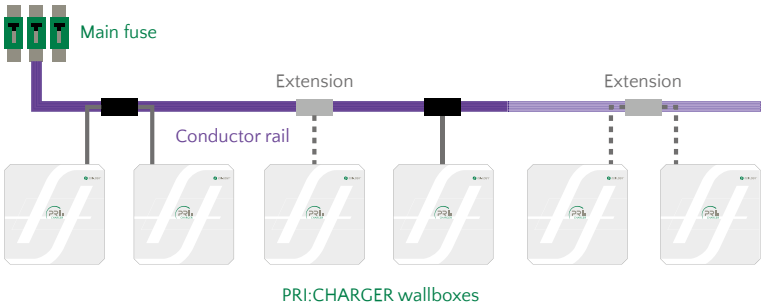
Through the integrated dynamic load management system, which is fully available even without connection to a backend, charging currents can be determined by phase.

Therefore, load peaks, unbalanced load as well as exceeding overall charging current at the output can be avoided.

EASY CONNECTION AND SETUP OF A CONDUCTOR RAIL SYSTEM

PRI:CHARGER wallboxes can be wired to an extendable conductor rail system with up to 200 stations.

The integrated load management system provides a safe charging infrastructure.



PRI:CHARGER wallboxes

Flat cable system for the charging infrastructure

PLUG & CHARGE

The future-proof PRI:CHARGER wallboxes are prepared for Plug & Charge. Together with a backend and an electric vehicle that both support Plug & Charge, the charging process automatically starts after connecting the vehicle to the wallbox without additional authentication steps.

INTEGRATED FAULT CURRENT PROTECTION

For higher safety levels, PRI:CHARGER wallboxes can be equipped with a DC fault current sensor. Furthermore, this only requires an upstream fault current circuit breaker of type A, which can be installed into the wallbox as an option.

RFID AUTHENTICATION

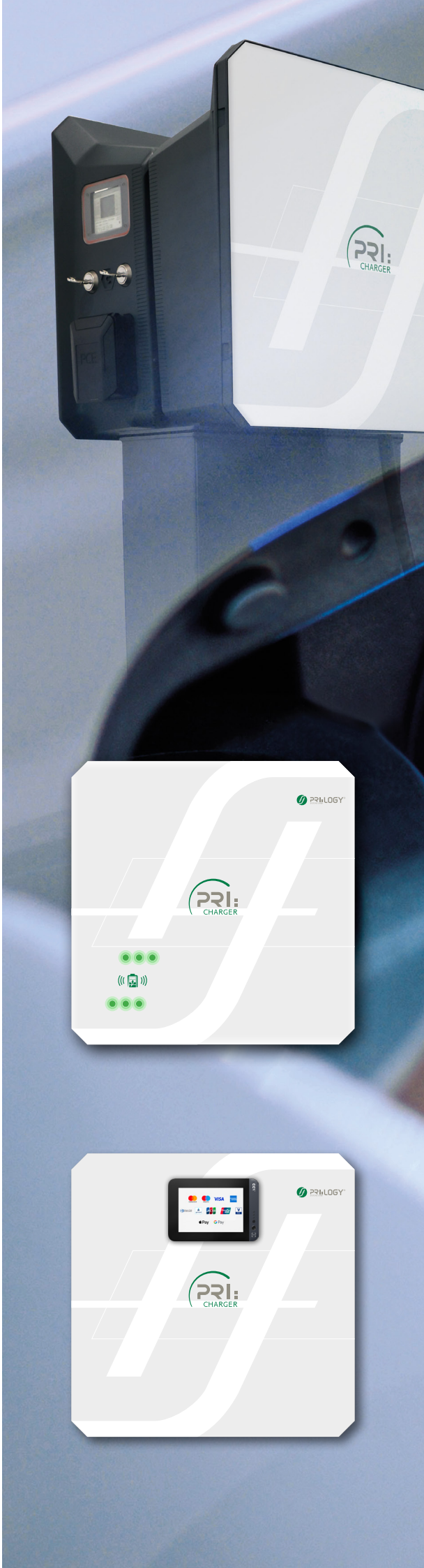
By RFID authentication, electric vehicles can only be charged by authorised users, who are registered in the backend or locally.

Charging can be cleared with a RFID charging card or with a RFID tag.

PAYMENT TERMINAL

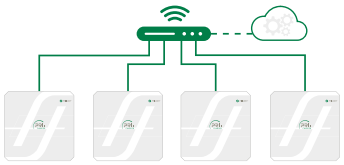
In addition to RFID, PRI:CHARGER allows integration of a payment terminal at the front side for easy accounting of charging events featuring a dynamic tariff systems (price per kilowatt hour, starting/blocking fees etc.) via web interface. OCPP is not required here.

Payment is achieved with major bank and credit cards and can also be processed contactless via NFC (Apple Pay, Google Pay etc.).

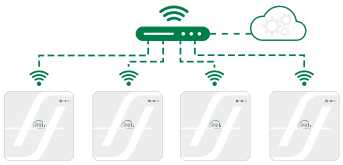


EXTENSIVE COMMUNICATION

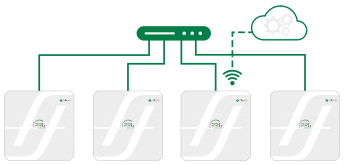
Communication between PRI:CHARGER stations as well as between PRI:CHARGER stations and backend system can be performed via LAN, WLAN and GSM, with one or multiple SIM cards.



LAN



WLAN



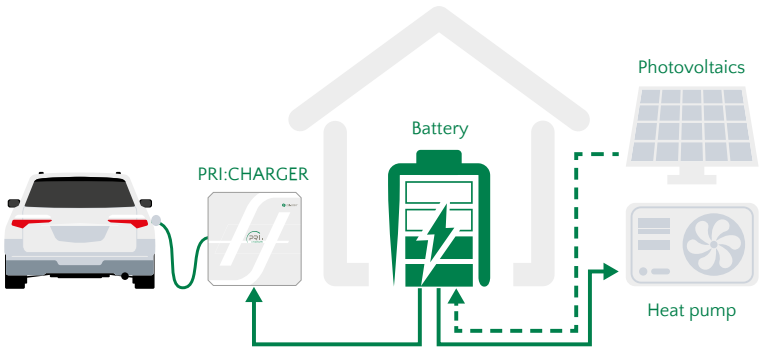
GSM with SIM card

GSM with multiple SIM cards

ENERGY MANAGEMENT

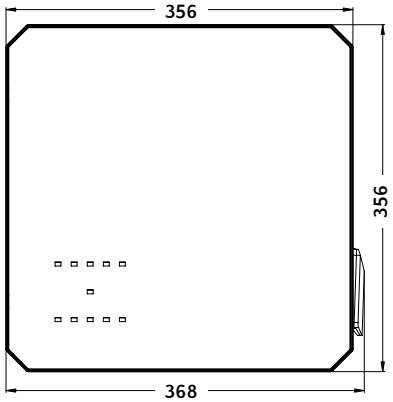
PRI:CHARGER may be integrated into Home Energy Management systems (HEM), where power consumption of electric vehicles can be synchronised with power generation by a local photovoltaic station. Furthermore, the system supports blackout protection. PRI:CHARGER supports communication protocols such as EEBus, SEMP, SunSpec Modbus and Modbus TCP.

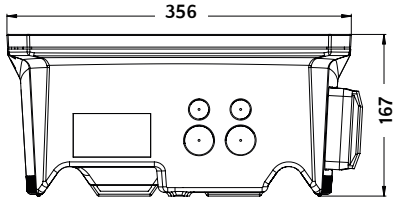
A mobile app provides an optimal overview of the PRI:CHARGER wallbox and the charging process. In addition, it allows multiple specific charging settings.

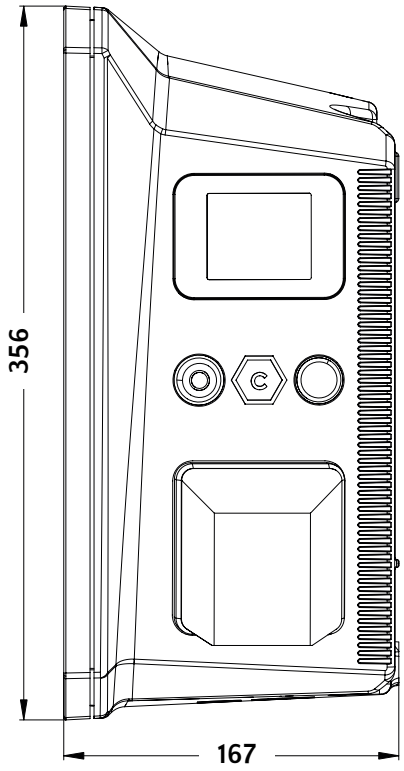


PRI:CHARGER SPECIFICATIONS

GENERAL SPECIFICATIONS		
MAX. CHARGING CAPACITY	22 kW AC	
INPUT	3P 400V 32A (22 kW)	
GENERAL CHARACTERISTICS	Configurable master and slave operation Integrable in one- or three-phase mains supply up to 3 x 32 A Integrated emergency opener for drive control (lock/unlock) Internal temperature sensor for reduction of load current, depending on ambient temperature	
CERTIFICATIONS	IEC 61851-1 Charging System for Electric Vehicles IEC 61851-22 EMC IEC 62196 Charging Socket 2014/35/EU Low Voltage Directive 2014/53/EU Radio Equipment Directive (RED) 2011/65/EU Restriction of Hazardous Substances (RoHS)	
LOAD MANAGEMENT	EEBus, SEMP, SunSpec Modbus, Modbus TCP	
CHARGING STATUS DISPLAY	Multi-color LEDs at device	
MAX. CABLE DIAMETER	5 x 10 mm²	
DIMENSIONS (W x H x D)	368 mm x 356 mm x 167 mm	
WEIGHT	5 kg	
PROTECTION TYPE	IP54 (suitable for indoor and outdoor installation)	
OPERATING RANGE	-20°C to 40°C (without direct sun irradiance) 5% to 95% relative humidity, non-condensing Max. 2000 m above sea level	
ALTERNATING COMPONENTS	**STANDARD**	**OPTIONAL**
CHARGING CONNECTION	Charging socket Type 2 with automatic locking (IEC/EN 62196)	Mounted loading cable Type 2 (5 m)
FAULT CURRENT DETECTION	6 mA (DC)	Integrated RCCB (AC), Fault current circuit breaker type A
ELECTRICITY METER	MID-compliant	Calibration law-compliant
CHARGING CLEARANCE	RFID with charging card or tag	Payment terminal CCV IM15
COMMUNICATION	Power Line Communication (PLC) ISO 15118, LAN, WLAN	GSM (LTE 4G), Open Charge Point OCPP 1.5/1.6
PAYMENT TERMINAL (OPTIONAL)		
DISPLAY	3.5 inch IPS full color touchscreen	
DIMENSIONS (W x H)	107 mm x 75 mm	
FUNCTIONS	Virtual PIN pad, integrated contactless scanner, camera for barcodes and QR codes	
PROTECTION TYPE	IP65, also between machine and terminal IK09	







Dimensions in mm

TECHNICAL PRODUCT DESIGN

Dana Däweritz
Atelier für Industriedesign

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