


# Rittal – eMobility

## Charging stations of the future



**Rittal – The System.**  
For electromobility of tomorrow.

# Rittal charging stations for electric vehicles

 Governments worldwide have set themselves the objective of promoting electromobility. The USA, Germany, China and many others aim to become technology leaders in this field. One imperative prerequisite for successful realisation is the creation of a suitable infrastructure with corresponding charging stations.

Rittal is able to supply the charging stations required to install a Europe-wide or even worldwide infrastructure for electric vehicles at any time. Furthermore, it is possible to handle the full system integration of customer-specific components, for example identification and payment administration systems.



## With the new charging stations, Rittal guarantees individual – and ecological – mobility for modern society.

The future is no longer merely a topic for tomorrow. The future begins today – with the Rittal electric service station. We have developed an innovative solution to make electricity available at the roadside. Based on our series-ready design, it is possible to develop a wide-area infrastructure.

As a leading manufacturer of product and system solutions, we can point to many years of experience in enclosure engineering and IT applications. The result of our development is a modular concept embracing not only a high-quality outdoor enclosure (protection category IP 54), but also the electronic system components.

## Mechanical features

### Dimensions (H x W x D)

- 1300 mm x 300 mm x 250 mm

### Double-walled enclosure

- Stainless steel panelling, brushed or painted
- Crash guards, painted aluminium
- Flap, painted aluminium
- Paint finish, RAL to customer specifications (optional anti-graffiti finish)
- Pedestrian pathway lighting as an option

### Locking for charging points

- Yes, integrated into charging point (electro-mechanical)

### Weight

- Total weight approx. 60 – 75 kg
- Depending on configuration

## Electrical features (optional)

### Number of charging points

- 2 independent charging points



**The Rittal charging station stands out by way of its modular concept. Different variants of the charging station are possible based on of a single enclosure:**

- Indoor (wall-mounted, private use)
- Outdoor (wall-mounted or free-standing, private use)
- Outdoor with payment function (free-standing enclosure, public use)
- Satellite system (master/slave stations)

Charging station Basic	Charging station Comfort +	Charging station Comfort ++
<ul style="list-style-type: none"> <li>■ Enclosure</li> </ul>	<ul style="list-style-type: none"> <li>■ Enclosure</li> <li>■ Electrical configuration</li> <li>■ Energy meter</li> </ul>	<ul style="list-style-type: none"> <li>■ Enclosure</li> <li>■ Electrical configuration</li> <li>■ Energy meter with electronic payment system</li> </ul>

- Sockets** (alternative fittings possible)
- 2 prototype OEM connectors (draft standard)
  - Off-circuit when unplugged
- Current and output per charging point**
- Depending on configuration
  - 16 A/3.7 kW to 63 A/43 kW
  - Single or three-phase
- Charging voltage**
- Dependent on configuration
  - 230 V/50 Hz or 400 V/50 Hz
- Energy metering for each charging point**
- Electronic active-energy meter
  - MID-compliant, direct measurement, 3-phase
- Protective device for each charging point**
- RCD with overcurrent release 16 A, 6 kA, 30 mA
  - A characteristics, alternatively type B
- Mains connection**
- Infeed 3~/N/PE, 230 V/400 V, 50 Hz
  - Sub-distribution IP 65, safety class 2
  - Neozed main fuse
  - Terminals 16 mm<sup>2</sup>, 5-pole on DIN rail

## System features (optional)

- Identification**
- RFID reader, HF (13.56 MHz), ISO 14443
  - Card type: Mifare Classic, alternatively Legic (cards not included in the scope of delivery)
- User interface**
- Graphic display with touchscreen input
  - 2 LED signal lamps per charging point
  - LED lights for the connectors
- Data link/remote monitoring**
- GSM/GPRS modem for remote monitoring and consumption data communication
- Environmental conditions**
- Outdoor enclosure
  - Operating temperature -20°C ... +40°C
  - Protection category IP 54



# Rittal – The System.

**Faster – better – worldwide.**

Maximum efficiency, reduced costs, energy savings. Rittal's strategy says think in terms of system solutions and provide one system for all applications – from power distribution and automation, to building installation, through to the IT infrastructure.

And offer your customers unprecedented benefits.

- Industrial enclosures
- Power distribution
- Electronic packaging
- System climate control
- IT systems
- Service



05/10 · E992