RAPID 120/180







RAPID 120/180 FEATURES

Functions

- Highly resistant enclosure made of stainless steel.
- Modular electronics. The 120 kW units can be expanded to 180 kW.
- Retractable hose management system.
- Ambient light.
- Simultaneous AC and DC charging:
 - DC: DC charging at 180 kW.
 Dual charging at 90 kW.
 CHAdeMO up to 80 kW.
 - · AC: 22 kW.
- Integrated DC wattmeters.
- AC MID wattmeters.

НМІ

- RGB status LEDs.
- RFID reader.
- 7" color touchscreen, multi-language.

Communications and software

- Ethernet, RS485.
- OCPP, Autocharge, Plug & Charge.

- DLM, static and dynamic power management with other Ingeteam DC and AC units.
- Web Manager.
- Modbus TCP, MQTT.
- Automatic software updates.
- Update via USB.

Safety

- Built-in electrical protections.
- Security lock with key.
- Door-opening sensor.

Options

- GPRS 2G/3G/4G communication.
- Ethernet switch kit for 8 ports.
- Contactless bank card reader.
- Emergency button.
- 21" Full HD advertising screen.
- Connector locking system.
- Parked vehicle detector.
- Smart DLM.
- Cloud Manager.

CONNECTORS



CCS1 200 CCS Type 1 200 A



CCS2 250 CCS Type 2 250 A



CHA200 CHAdeMO 200 A



NACS



AC 22 kW Type 2 socket with shutters



2,300 mm

730 mm 774 mm

RAPID 180



AC INPUT

Voltage 3 phases + N + PE; 380/400 Vac ±15%

Frequency 50/60 Hz \pm 5%

Rated current 222 A (190 A + 32 A) 312 A (280 A + 32 A)
Rated power 142 A (120 kW + 22 kW) 202 A (180 kW + 22 kW)

DC OUTPUT

Voltage range 150 - 1,000 V

Maximum current 400 A (200 + 200 A) | 1 x 500 A @boost 500 A (250 + 250 A) | 1 x 500 A @boost

RAPID 120

Maximum power 120 kW (60 + 60 kW) 180 kW (90 + 90 kW)

Charging connectors CCS | CCS + CCS | CCS + CHAdeMO

AC OUTPUT (OPTIONAL)

Voltage $400 \, \text{Vac} \pm 15\%$ Maximum current $32 \, \text{A}$

Maximum power 22 kW

Charging connectors Type 2 socket with shutters

REGULATIONS AND SAFETY

Standards IEC 61851-1, IEC 61851-21-2, IEC 61851-23, IEC 61851-24, IEC 62196-2, IEC 62196-3, IEC 61000, DIN 70121, ISO 15118

Overcurrent Curve C programmable circuit breaker protections (25 kA)

Indirect contacts

30 mA Type A (DC) differential protections
30 mA Type B (AC) differential protections

Overvoltages

Type 2 protection against permanent and transient overvoltages, both on DC inputs and

outputs

FUNCTIONALITIES AND ACCESSORIES

Communication interfaces Ethernet, RS485,

GPRS - 2G/3G/4G (optional), dual SIM (optional)

Communication protocols OCPP 1.6, 2.0.1, Modbus RTU, Modbus TCP, MQTT

7" color touchscreen, multi-language

HMI RFID reader (Mifare Classic 1K&4K, Mifare DesFire EV1, NFC)

RGB status LEDs

Contactless bank card reader (optional)⁽¹⁾

Advertising screen 21" Full HD (optional)

Plug & Charge Yes

GENERAL INFORMATION

Stand-by consumption < 60 W < 85 W

Efficiency and power factor > 95% at rated power; > 0.98
Energy measurement AC (MID) and DC meter⁽²⁾

Hose length 6.5 m (5 m usable length) with retractable system included⁽³⁾

Operating temperature -25 °C to 55 °C (derating from 40 °C) | Low temperature kit at -35 °C (optional)

Humidity < 95%

Maximum altitude 2,000 m (for higher altitudes, consult Ingeteam)

Weight 380 kg 420 kg

Dimensions (h x w x d)

Enclosure

Stainless steel and aluminum

Protection class

IP54 / IK10 (IK08 display) / C5H

Markings CE

Directives

Low Voltage Directive: 2014/35/EU | EMC Directive: 2014/30/EU |

RED Directive 2014/53/EU

Notes

⁽¹⁾ Worldline SELF2000 or Payter Apollo.

⁽³⁾ Optional 10 m hose without retractable system.

⁽²⁾ MID certification (optional) and Eichrecht certification in process.