

Simon | SM20

BUSINESS:
SM20 electric vehicle charging station with broad versatility for business environments

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BASIC INFORMATION

Series: SM20 Business.

Operating environment: Tertiary.

Charging modes: Mode 3 (Type 2 connector) | Modes 1 and 2 (Schuko connector).

Supply voltage: 230 V 50 Hz (1P+N+T) / 400 V 50 Hz (3P+N+T) (depending on model).

Maximum type-2 power: 7.4 kW / 22 kW (depending on model).

Socket type: 5 m Type 2 cable | Type 2 socket | Schuko + Type 2 sockets combination.

Number of sockets: 1 Type 2 socket | 2 sockets: Type 2 + Schuko.

Maximum current per socket: Type 2 socket: 32 A | Schuko connector: 10 A.

Socket operation: Independent.

Power balancing between sockets: In combination socket devices, when connecting a load to the Schuko socket, 10 A is subtracted from the Type 2 socket.

Power balancing between devices:

- Master-slave system: 1 master + 11 slaves.

Equal load sharing between devices.

- Compatible with Simon Electron Manager intelligent power balancing equipment. Up to 128 Simon SM20 (64 devices with Schuko + Type 2 sockets).

Status indicator: Front LED strip.

Display: LCD display.

RFID: Yes (ISO14443A / Mifare - 13.56 MHz), 2 cards included.

Residual current detection per socket: DC 6 mA.

Secondary meter per socket: Included with MID certificate.

Communication: RS-485, Ethernet, 4G modem (optional).

Communication protocols: OCPP 1.6 JSON / Modbus TCP/IP.

Compatibility: Simon Electron Manager and SPL network analysers.

Manufacturing material: ABS.

Cable holder: Painted galvanized steel (only in models with 5 m cable).

IP rating: 54.

IK rating: 10.

Dimensions: 324 mm x 289 mm x 154.2 mm.

Weight: 6 kg.

Marking available: CE (European conformity).

Optional (see table): 4G Modem / RCBO:

C Curve circuit breaker + 30 mA Class A differential switch.

Accessories: Single- and three-phase SPL network analyser / Single and double totem for SM20.

REGULATIONS

EN IEC 61851-1:2019

UNE-EN 61851-22:2002

UNE-EN 61000-6-1:2007

UNE-EN 61000-6-3:2007 + A1:2011

IEC 62196-1 /- 2

INSTALLATION AND MAINTENANCE

Installation: Outdoor / Indoor.

Type of connection: Internal (via terminal connections).

Cable section admitted: From 2.5 to 25 mm².

Installation type: Wall-mounted.

Wall-mounted, 4 screws + 4 anchors (not included).

Configuration and updating: Via Ethernet cable.

Operating temperature range: -25°C to 50°C.



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LIGHT UP EMOTIONS

T2 WALL SOCKET

SINGLE-PHASE T2 SOCKET (7.4 kW)



	T2 + SCHUKO	RCBO	4G MODEM
0640141-000	---	---	---
0640141-100	---	X	---
0641141-000	---	---	X
0641141-100	---	X	X
0640341-000	X	---	---
0641341-000	X	---	X
0640341-100	X	X	---
0641341-100	X	X	X

SMOOTH HOSE FOR WALL

SINGLE-PHASE C5T2 HOSE (7.4 kW)



	RCBO	4G MODEM
0640142-000	---	---
0640142-100	X	---
0641142-000	---	X
0641142-100	X	X

THREE-PHASE T2 SOCKET (22 kW)



	T2 + SCHUKO	RCBO	4G MODEM
0640121-000	---	---	---
0640121-100	---	X	---
0641121-000	---	---	X
0641121-100	---	X	X
0640321-000	X	---	---
0641321-000	X	---	X

THREE-PHASE C5T2 HOSE (22 kW)



	RCBO	4G MODEM
0640122-000	---	---
0640122-100	X	---
0641122-000	---	X
0641122-100	X	X

T2: Charger with Type 2 socket (Mennekes connector).

C5T2: 5 m straight cable with Type 2 (Mennekes) connector.

T2 + Schuko: Charger with 2 sockets. Type 2 socket (Mennekes connector) and Schuko socket.

RCBO: C Curve circuit breaker + Class A 30 mA differential switch. [Residual current operated circuit breaker with overcurrent protection].