

WE DRIVE LAR

# Product specifications

Solar Life





# Product specifications



## Solar Life

### Product overview

Part	Description	RCBO	Outlet Type
9001.20001	Solar Life 22kW Socket Type 2		Socket
9001.20002	Solar Life 22kW Socket Type 2S		Socket
9001.20003	Solar Life 22kW Cable Type 2		5m or 7.5m cable
9001.20005	Solar Life 22kW Socket Type 2	.	Socket
9001.20006	Solar Life 22kW Socket Type 2S	.	Socket
9001.20007	Solar Life 22kW Cable Type 2	.	5m or 7.5m cable



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### General

Model type	Wallstation
Supported EV charging standards	Mode 3 conform IEC 61851-1: 2019 ISO15118-20
Number of outlets	1
Outlet type	Type 2 socket conform IEC 62196-2: 9001.20001, 9001.20005 Type 2S socket conform IEC 62196-2 ed. 2: 9001.20002, 9001.20006 Type 2 cable conform IEC 62196-2: 9001.20003, 9001.20007
Max. rated AC discharging power	- 11kW
Max. rated AC charging power	22kW
Rated grid frequency	50Hz
Max. rated discharging AC current	-16A per phase
Max. rated charging AC current	32A per phase
AC current per phase (range)	-16 till +32A
Input voltage	3 x 230V (3 phase connection)
Energy meter	Class B, MID certified
User interface	RGB status LED White LEDs clockwise animation: charging White LEDs counter-clockwise animation: discharging
User authorization via	RFID cards Autostart (no autorisation) 15118 Plug & Charge authorisation (Renault-only)
RFID card reader	ISO 14443A/B : MiFare Classic IEC 15693 – vicinity cards
Incoming lines	3P, N, PE
Electrical protection class	I
Overvoltage category	Category III
Product warranty	2 years



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### Vehicle-to-grid (V2G) specifications and grid monitoring

Max. AC discharging power *	11kW
Max. discharging current per phase *	16A
Protocol	ISO 15118-20: 2022
Anti-islanding	Yes
Grid monitoring	Yes
Region of grid compliance	Netherlands: EN 50549-1 (in progress) Belgium: C10/11 ed. 2.3 (17/10/2024) (in progress) France: Enedis-PRO-RES_64E v3
Interface protection relay and switch	In accordance with EN 50549-1
Supported DER control functions	(high / low) Frequency Must Trip curves, configurable (high / low) Voltage Must Trip curves, configurable
Supported grid frequency range	47 Hz - 52 Hz

\*) Depends on vehicle capabilities



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### Safety measures

Controller	WDS HV Safety Controller WDS App Controller
Fault current protection	6mA DC: 9001.20001, 9001.20002, 9001.20003 6mA DC + 30mA AC: 9001.20005, 9001.20006, 9001.20007
RCBO	9001.20001, 9001.20002, 9001.20003: n.a. 9001.20005, 9001.20006, 9001.20007: Type A 30mA, 10ms, 4P 40A Char. C
Overcurrent protection response time	125% : 6 seconds
Contactors	Integrated – gap distance in accordance with IEC 62955 Anti-welding protection through safety relay
Main switch	n.a.
Supported earthing systems	TN-C-S, TN-S, TT
Compliant with	IEC 61439-7, NEN1010, AREI, NF-C15-100, NF C15-100-7-722
EV-ready	EV-ready 2.0A
Sensors	Temperature sensors – for derating



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### Installation

Fault current detection (RCD or RCBO)	<p>9001.20001, 9001.20002, 9001.20003: Type A (mandatory) 30mA AC</p> <p>9001.20005, 9001.20006, 9001.20007: Type A (optional) 100mA AC (Selective)</p>
EV-ready compliance	<p>To make sure the installation is compliant with EV-ready 1.x or higher specifications, the RCD must be of at least Type A, high immunity (type HPI, SI, HI, KV). Please refer to supplier's datasheets to select the right components.</p>
Short-circuit protection	<p>9001.20001, 9001.20002, 9001.20003: 11kW (16A per phase): 20A Char C MCB, or 20A gG fuse 22kW (32A per phase): 40A Char C MCB, or 35A gG fuse</p> <p>9001.20005, 9001.20006, 9001.20007: 22kW (32A per phase): 50A Char C MCB, or 50A gG fuse (it is recommended to have selective components in series)</p>
Swivel size	M32 (13-25 mm cable diameter)
Maximum wire diameter	2.5 - 10mm <sup>2</sup> (Cu)
Grid connection	Max. 32 A per phase
Input voltage	<p>3 x 230V (3 phase connections) Tolerance for all voltage levels: +/- 10%</p> <ul style="list-style-type: none"> <li>• <math>V_{Lx-N}</math>: 230V</li> <li>• <math>V_{Lx-Ly}</math>: 400V</li> <li>• <math>V_{PE-N}</math>: ≈ 0V</li> </ul>



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### Available memory

Number of charge cards for local authorization list	5000
Logging	Approx. 30 days * (~40000 Lines of logging)
Transaction information	Approx. 1000 transactions **

*\*) Assuming 2 transactions per day with regular logging without security events or other warnings reported and 15 minutes heartbeat intervals*

*\*\*\*) Assuming metervalue interval of 15 minutes and transactions lasting 4 hours*

### Operating conditions

Ambient temperature *	-30 °C till +50 °C
Storage conditions	-30 °C till +80 °C
Humidity	5 - 95% non-condensing

*\*) The operating temperature assumes the ambient temperature. Direct exposure to sunlight will have an adverse impact on continuous operation of the product. As a measure to control temperature, the charging station will automatically adapt charging rates when maximum temperature is exceeded. Ultimately, charging may be paused altogether to retain product lifetime*



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### Network specifications

Vehicle communication	Mode 3 conform IEC 61851 ISO 15118-3, ISO 15118-20
Mobile communication	4G (LTE Cat M1), supported frequency bands: 1, 3, 8, 20
Sim	Nano-sim card slot
Wired communication	Ethernet 100-base T Serial communication RS485 (for Smart Meter, EMS connections, P1 dongle) IPv4
Available connectors (ports)	2x RJ45

### Enclosure

Material	Polycarbonate / ASA UV stabilised
Colours	Body: RAL9017 Decorative cover: RAL7016 Socket ring: RAL1004
Product dimensions (DxWxH)	125 x 250 x 425 mm
Package dimensions (DxWxH)	283 x 295 x 495 mm
Weight	7.1 kg: 9001.20001, 9001.20002 10.1 kg: 9001.20003 7.6 kg: 9001.20005, 9001.20006 10.6 kg: 9001.20007
Fire safety class	5VB conf. UL94
Classification of mechanical impact protection	IK10 (conf. IEC 62262)
Classification of ingress protection	IP54 (conf. IEC 60529)
Temperature control	Passive - aluminium heatsink in backplate



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### Supported protocols

Charging	Mode 3 conform IEC 61851-1 ed.3 ISO15118-20
Communication met central management system	OCPP 1.6 – full support OCPP 2.0.1 (modules: Core, 15118, V2G)
Smart meter communications	SMR5.x (P1-port)
Energy management systems	OCPP

### Accessories

Article	Description
Cables for products 900120003, 900120007	Charge cable 5 meter, Type 2 plug without shutters, max 32A Charge cable 7.5 meter, Type 2 plug without shutters, max 32A
Mounting pole	Installation pole for free-standing installation.
Wall bracket (spare)	Wall bracket for wall-mounting (delivered with the product, also available as a spare part)

### Options

Options **	Description
Extended warranty	Extended warranty, up to 5 years (+3 yrs) Extended warranty, up to 8 years (+5 yrs) Extended warranty, up to 10 years (+8 yrs)
Product personalisation	Decorative cover change of RAL color – full (MOQ applies) Socket ring change of RAL color – full (MOQ applies) Spray painting of decorative cover (MOQ applies) Screen printing of glass shield (MOQ applies)
Vehicle-to-grid	Enables V2G capabilities for your charging station – remotely activated

\*\*\*) Contact your local We Drive Solar sales representative for more information and pricing.

WE DRIVE SLAR

# Shaping the electricity grid of the future

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