

PLENTICORE plus

Hybrid inverter - 3.0–10 kW



Data sheet

PLENTICORE plus: The new standard – versatile and smart

All-in-one

- PV hybrid inverter with battery input with optional activation code ^{1, 2)}
- Compatibility with various high-voltage batteries ²⁾
- 3 MPP trackers suited to the layout of almost all roofs
- Extended MPP range – perfect for repowering

Smart connected

- Smart Communication Board – future proof, new functions can be added via the integrated Web Application
- Display, data logger, system monitoring, network and control interfaces integrated as standard
- Free Solar Portal for monitoring the PV system
- Modbus/Sunspec (TCP) for Smart Home integration



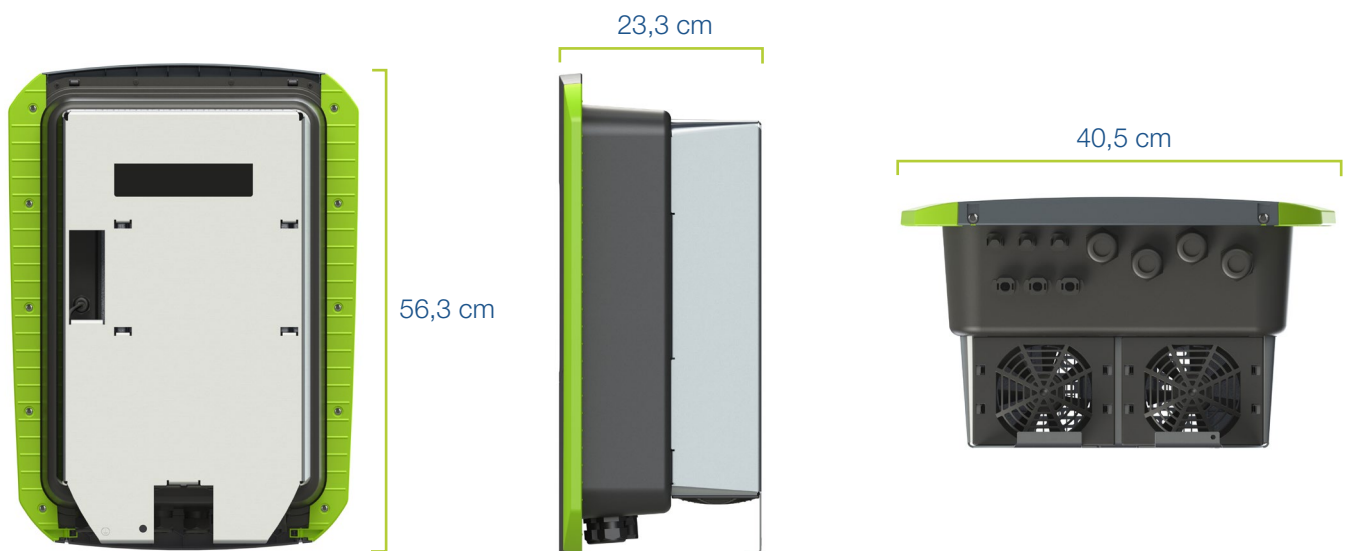
Smart performance

- Fast, self-learning shadow management – adapts individually to the installation site
- Dynamic active power control and 24-hour home-consumption measurement ²⁾
- Self-learning generation and consumption forecast – for optimum self-consumption ²⁾
- Low conversion losses due to DC coupling and high-voltage battery
- Prepared for additional battery charge via AC energy sources ²⁾

Easy to install

- Simple device configuration using commissioning wizard
- Safe installation due to clearly arranged, separate terminal compartment and protected power electronics
- Compatible with RCD type A
- Auto Update: Always at the cutting edge of technology

PLENTICORE plus: compact and rapidly deployable



¹⁾ Activation code battery available at: shop.kostal-solar-electric.com

²⁾ KOSTAL Smart Energy Meter required

| Power class | | 3.0 | 4.2 | 5.5 | 7.0 | 8.5 | 10 | |
|--|---|-------------------|-----|--------------|--|--------------------------------|---------|--|
| System data | Topology: Without galvanic isolation – transformerless | | | | ✓ | | | |
| | Protection class according to IEC 60529 | | | | IP 65 | | | |
| | Protective class according to IEC 62103 | | | | I | | | |
| | Overvoltage category according to IEC 60664-1, input side (PV generator) | | | | II | | | |
| | Overvoltage category according to IEC 60664-1, output side (grid connection) | | | | III | | | |
| | Degree of contamination | | | | 4 | | | |
| | Environmental category (outdoor installation) | | | | ✓ | | | |
| | Environmental category (indoor installation) | | | | ✓ | | | |
| | UV resistance | | | | ✓ | | | |
| | AC cable diameter (min-max) | mm | | | | 8...17 | | |
| | AC cable cross-section (min-max) | mm ² | | 1.5...6 | | 2.5...6 | 4...6 | |
| | DC cable cross-section (PV/BAT) (min-max) | mm ² | | | | 2,5...6 / 4...6 | | |
| | Max. fuse protection on output side | | | | | B16/C16 | B25/C25 | |
| | Internal operator protection according to EN 62109-2 (compatible with RCD type A from FW 01.14) | | | | | ✓ | | |
| | Independent disconnection device according to VDE 0126-1-1 | | | | | ✓ | | |
| | Height/width/depth | mm (in) | | | | 563/405/233 (22.17/15.94/9.17) | | |
| | Weight | kg (lb) | | 19.6 (43.21) | | 21.6 (46.62) | | |
| | Cooling principle – regulated fans | | | | | ✓ | | |
| | Max. air throughput | m ³ /h | | | | 184 | | |
| | Noise emission (typical) | dB(A) | | | | 39 | | |
| Ambient temperature | °C (°F) | | | | -20...60 (-4...140) | | | |
| Max. installation altitude above sea level | m (ft) | | | | 2000 (6562) | | | |
| Relative humidity | % | | | | 4...100 | | | |
| Connection technology, DC side | | | | | SUNCLIX plug | | | |
| Connection technology, AC side | | | | | Spring-type terminal strip | | | |
| Interfaces | Ethernet LAN (RJ45) | | | | 1 | | | |
| | Connection of energy meter for collecting energy data (Modbus RTU) | | | | 1 | | | |
| | Digital inputs (e.g. for digital ripple control receiver) | | | | 4 | | | |
| | USB 2.0 | | | | 1 | | | |
| | Potential-free contact for self-consumption control | | | | 1 | | | |
| | Webserver (user interface) | | | | | ✓ | | |
| Warranty (Smart Warranty / Smart Warranty plus ¹⁾) | Years | | | | 10 (5 + 5) | | | |
| Directives/Certification | | | | | CE, GS, CEI 0-21, CEI10/11, EN 62109-1, EN 62109-2, EN 60529, EN 50438 ²⁾ , EN 50549-1 ²⁾ , ENA/EEA, G98, G99, IFS2018, IEC 61727, IEC 62116, RD 1699, RFG, TF3.3.1, TOR Erzeuger, UNE 206006 IN, UNE 206007-1 IN, UTE C15-712-1, VDE 0126-1-1, VDE-AR-N 4105, VJV2018 | | | |

Subject to technical changes. Errors excepted. You can find current information at www.kostal-solar-electric.com. Manufacturer: KOSTAL Industrie Elektrik GmbH, Hagen, Germany

¹⁾ Activate your free warranty (Smart Warranty) now in the KOSTAL Solar online shop (shop.kostal-solar-electric.com). This does not affect your statutory warranty. You will find more information about the service and warranty conditions in the download area for your product.

²⁾ Does not apply to all national annexes

³⁾ MPP range of 120 V...180 V (with limited current of 9.5-13 A). MPP range of 680 V...720 V (with limited current of 11 A). Detailed layout can be seen in KOSTAL (PIKO) Solar Plan.

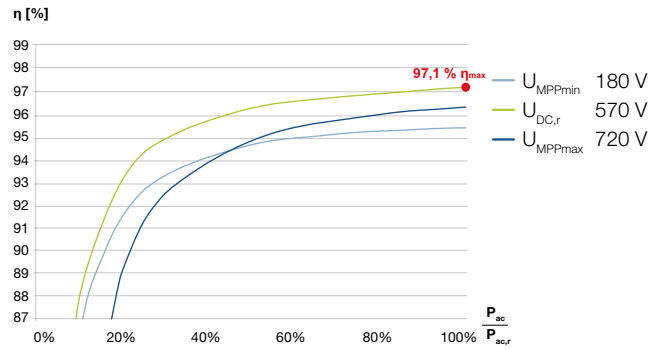
⁴⁾ UK G83/2 and G98-1 settings: The maximum output current is limited to 16 A @ rated AC grid voltage.

PLENTICORE plus available in 6 power classes

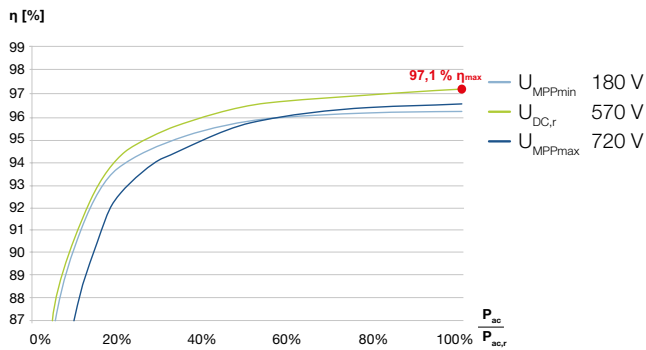


- 3.0
- 4.2
- 5.5
- 7.0
- 8.5
- 10

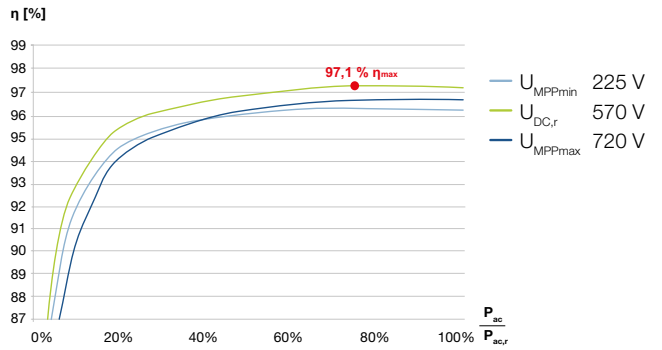
PLENTICORE plus 3.0



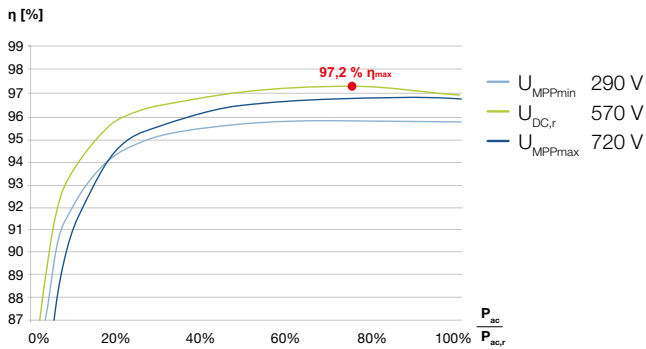
PLENTICORE plus 4.2



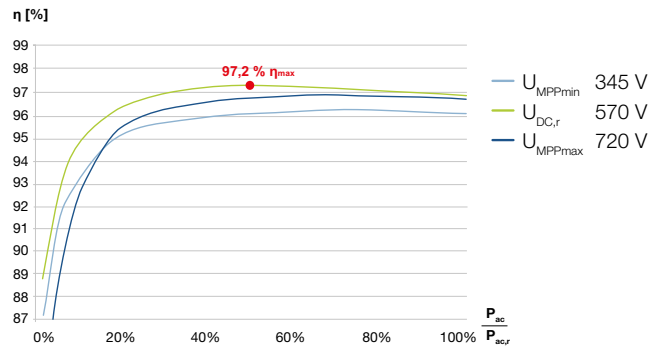
PLENTICORE plus 5.5



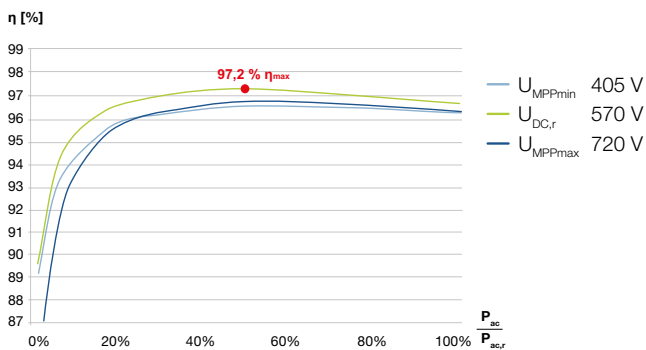
PLENTICORE plus 7.0



PLENTICORE plus 8.5



PLENTICORE plus 10



Services for our products

FAQs:
kostal-solar-electric.com/Service_Support

Product registration, KOSTAL Smart Warranty, warranty extension, battery activation code or purchase of accessories: shop.kostal-solar-electric.com

Get in touch: service-solar@kostal.com

