

PLENTICORE plus

Hybrid inverter - G2 3.0-10 kW



Data sheet

PLENTICORE plus G2: 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: control interfaces integrated as standard
- Future-proof: new functions via software update
- Display, data logger and system monitoring
- Free Solar Portal for monitoring the PV system
- 2 x LAN, WiFi, 4 x digital switching outputs for self-consumption control or event reporting, „SG Ready“ compatible, Evaluation of external overvoltage protection modules
- Modbus/SunSpec (TCP) for Smart Home integration



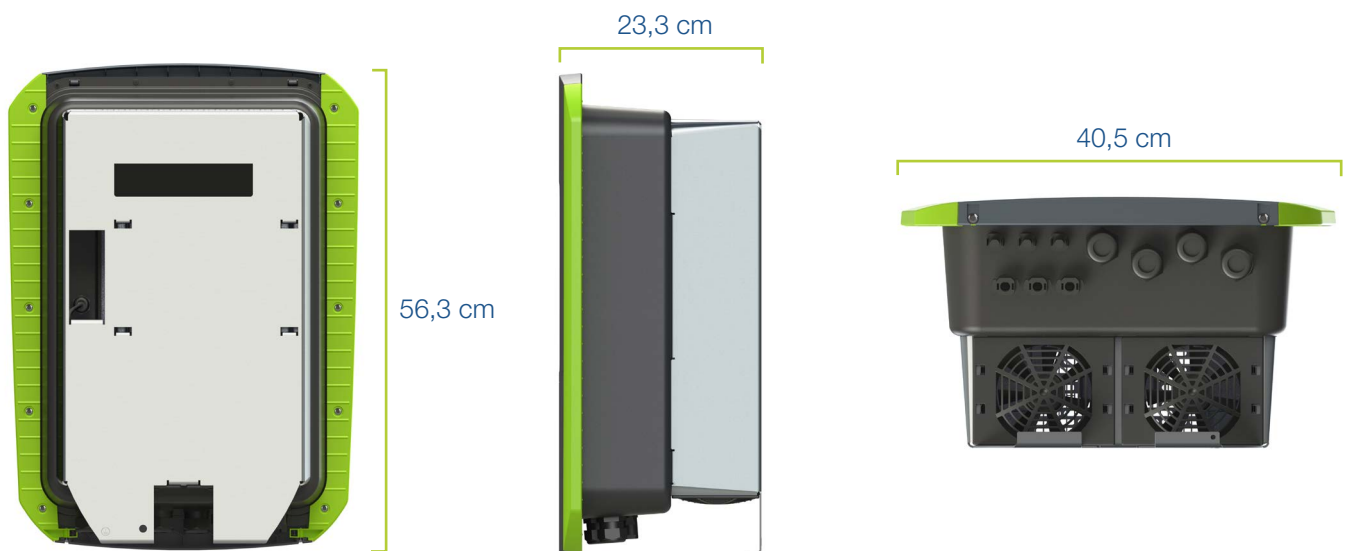
Smart performance

- 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 via display or smartphone
- Safe installation due to clearly arranged, separate terminal compartment with Push-In terminals and protected power electronics
- Compatible with RCD type A
- Auto Update: Always at the cutting edge of technology

PLENTICORE plus G2: compact and rapidly deployable



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

²⁾ Compatible energy meter required (see document Released energy meters in the download area for the product)

PLENTICORE plus G2		3.0	4.2	5.5	7.0	8.5	10	
System data	Topology: Without galvanic isolation – transformerless	yes						
	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)	yes						
	Environmental category (indoor installation)	yes						
	UV resistance	yes						
	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)		yes					
	Independent disconnection device according to VDE 0126-1-1		yes					
	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		yes					
	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						
Connection technology, interfaces		Push-In terminal						
Interfaces	Ethernet LAN (RJ45) / WiFi (IEEE 802.11b/g/n 2.4GHz)	2 / yes						
	Connection of energy meter for collecting energy data (Modbus RTU)	1						
	Digital inputs	Ripple control receiver or external battery control, CEI, OVP monitoring						
	Digital outputs	4 (24 V, 100 mA)						
	Webserver (user interface)	yes						
	Warranty (Smart Warranty / Smart Warranty plus ¹⁾)	Years	10 (5 + 5)					
Directives/Certification		CE, GS, CEI 0-21, C10/11, EN 62109-1, EN 62109-2, EN 60529, EN 50438 ²⁾ , EN 50549-1 ²⁾ , NA/EEA, G98, G99, EIFS2018, IEC 61727, IEC 62116, RD 1699, RD 647, RFG, TF3.3.1, TOR Erzeuger, UNE 206006, UNE 206007-1, 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 at rated output: Outside the MPP range, MPP control takes place below the nominal power. Based on full occupancy of all MPP trackers.

⁴⁾ Working voltage range: No feed-in takes place outside the working voltage range.

PLENTICORE plus G2 available in 6 power classes



3.0

4.2

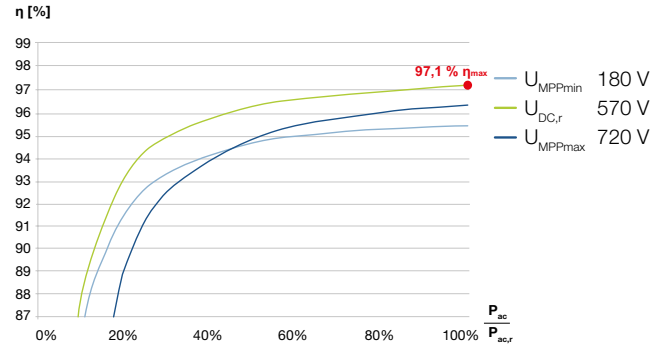
5.5

7.0

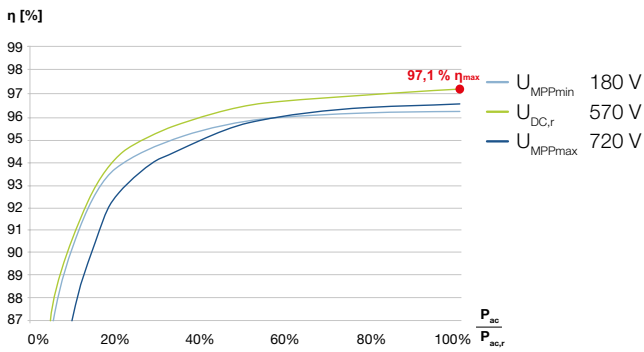
8.5

10

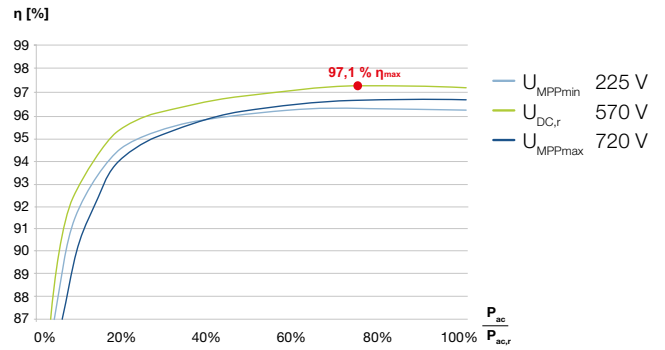
PLENTICORE plus 3.0 G2



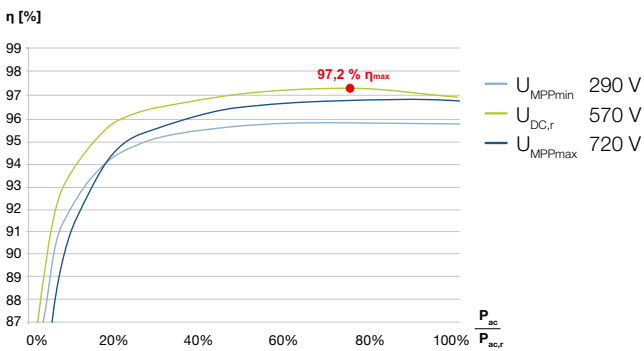
PLENTICORE plus 4.2 G2



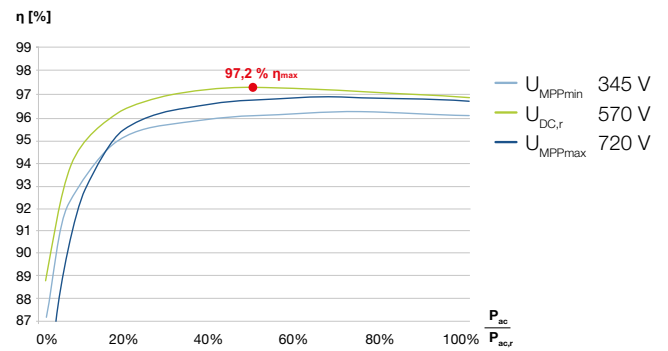
PLENTICORE plus 5.5 G2



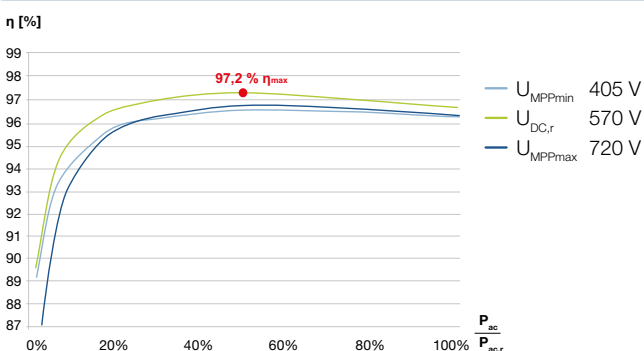
PLENTICORE plus 7.0 G2



PLENTICORE plus 8.5 G2



PLENTICORE plus 10 G2



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

