KOSTAL

KOSTALize

your energy

PLENTICORE
The original. Re-thought!

KOSTAL – it's a PLUS

With the third generation of the PLENTICORE, KOSTAL once again demonstrates pioneering spirit true to the motto „one for all, all in one“ and sets new standards in terms of economic efficiency, flexibility and innovation with the new three-phase 20 kW hybrid inverter. Convince yourself!

Economical:
One device for all applications simplifies planning

Flexible:
Always the right device with the optional power and battery upgrade

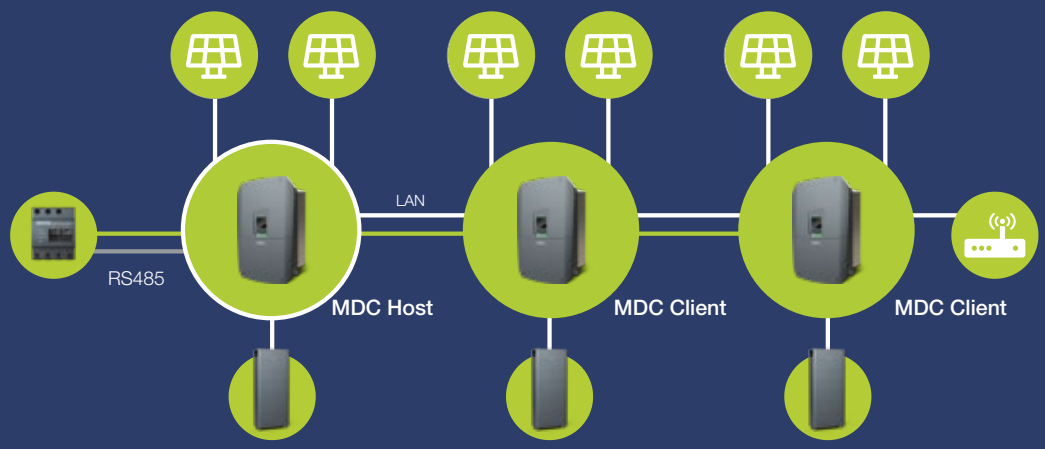
Innovative:
Comprehensive functionality with backup power operation and DC overvoltage protection

Performance features

A wide range of technical features and activatable comfort functions ensure the variable use and investment security of the third-generation PLENTICORE.

- Power upgrade
- Backup power operation with external switchover device
- Battery upgrade
- Multi Device Control: intelligent control of multiple devices within a networked system
- Integratable DC overvoltage protection
- 3 MPP trackers
- Extended current and voltage range
- AutoUpdate
- Modbus/Sunspec for Smart Home
- Digital device display
- Convenient terminal compartment and protected power electronics
- Compatible with KOSTAL ENECTOR Wallbox
- Dynamic power control / limitation
- Limitation via ripple control receiver
- Commissioning via app, web interface or display
- WiFi, 2 x LAN, 4 digital Outputs, SG-Ready
- Self-learning shadow management
- Wide battery partner portfolio

NEW: Plant design integrated into a network with Multi Device Control (MDC). That's maximum flexibility.



Configuration example: The device network shown here illustrates MDC in operation. A PLENTICORE G3 acts as the central host, controlling two client inverters. Each of the three inverters is equipped with a battery storage unit – creating a high-performance system with a combined charging/discharging capacity of up to 60 kW.

Technical information

	PLENTICORE		S			M			L		
	AC basic powerclass (optional power upgrade)	kW	4	(5,5)	(7)	8,5	(10)	(12,5)	15	(17,5)	(20)
Input side (DC)	Input voltage range (U_{DCmin} - U_{DCmax})	V	75...1000								
	MPP working voltage range ($U_{MPPworkmin}$ - $U_{MPPworkmax}$)	V	75...800								
	Max. input current (I_{DCmax}) DC1/DC2 input	A	17			17			30		
	Max. input current (I_{DCmax}) DC3 input	A	17			30			30		
	Number of DC inputs		3								
	Number of combined DC inputs (PV or battery)		1								
AC	Output side (AC): Grid connection		3N~, 230/400V, 50 Hz								
	Rated output current ($I_{AC,r}$)	A	10.1			18.1			29		
	Backup power operation		3N~, 230/400V, 50 Hz								
System data	Protection class in accordance with IEC 60529		IP 65								
	Height / width / depth	mm	570/409/237								
	Weight	kg	19,6			21,6			24,1		
	Connection technology, DC side		SUNCLIX plug								
	Connection technology, AC side		Spring-type terminal strip								
Interfaces	Ethernet LAN (RJ45) / WiFi (IEEE 802.11b/g/n 2,4GHz)		2 / ✔								
	Energy meter connection for collecting energy data (Modbus RTU)		✔								
	Digital inputs		Ripple control receiver or external battery control, CEI, OVP monitoring								
	Digitale outputs (e.g. for self-consumption control)		4 (24 V, 100 mA)								
	Webserver (user interface)		✔								
	Warranty (Smart Warranty plus[1)])	Years	10 (5+5)								

Subject to technical changes. Errors excepted. Detailed layout can be seen in KOSTAL Solar Plan.

1) KOSTAL Smart Warranty and Smart Warranty Plus: 5-year warranty period with activation in the KOSTAL Solar Webshop. Additional 5-year material warranty with registration in the KOSTAL Solar Portal. You will find more information about the service and warranty conditions in the download area for your product.

Discover the KOSTAL product portfolio and convince yourself of the wide range of applications.

You can find more information at **www.kostal-solar-electric.com**

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