



Smart  
connections.

## Technical Specification

PLENTICORE plus  
with Nilar Home Box

PLENTICORE plus power class		3.0	4.2	5.5	7.0	8.5	10	
Input side (DC)	Max. PV power (cos $\varphi = 1$ )	kWp	4.5	6.3	8.25	10.5	12.75	15
	Nominal DC power	kW	3.09	4.33	5.67	7.22	8.76	10.31
	Input voltage range ( $U_{DCmin} - U_{DCmax}$ )	V	120...1000					
	MPP working voltage range ( $U_{MPPworkmin} - U_{MPPworkmax}$ )	V	120...720					
	Number of DC inputs		3					
	Number of combined DC inputs (PV or battery)		1					
	Number of independent MPP trackers		3					
	DC 3 – battery input optional - Activation code battery available at: <a href="http://shop.kostal-solar-electric.com">shop.kostal-solar-electric.com</a>							
Working voltage for battery input ( $U_{DCworkbatmin} - U_{DCworkbatmax}$ )	V	120...650						
Max. charging current/discharging current at battery input	A	13/13						
Output side (AC)	Rated power, cos $\varphi = 1$ ( $P_{AC,r}$ )	kW	3.0	4.2	5.5	7.0	8.5	10
	Output voltage ( $U_{ACmin} - U_{ACmax}$ )	V	320...460					
	Rated output current ( $I_{AC,r}$ )	A	4.33	6.06	7.94	10.10	12.27	14.43
	Max. output current ( $I_{ACmax}$ )	A	4.81	6.74	8.82	11.23	13.63	16.04
	Grid connection		3N~, 400V, 50 Hz					
Standby/standby incl. 24h home-consumption measurement	W	4.5/7.9						
$\eta$	Max. efficiency	%	97.1	97.1	97.1	97.2	97.2	97.2
	European efficiency	%	95.3	96.5	96.2	96.5	96.5	96.5
System data	Protection class according to IEC 60529		IP 65					
	Height/width/depth	mm	563/405/233					
	Weight	kg	19.6		21.6			
	Ambient temperature	°C	-20...60					
	Connection technology, DC side		SUNCLIX plug					
Directives/Certification <sup>1)</sup>		CE, GS, CEI 0-21, CEI10/11, EN 62109-1, EN 62109-2, EN 60529, EN 50438*, EN 50549-1*, 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						

Nilar Home Box		E-288V-5,76kWh-K	EPLUS-288V-6,91kWh-K	
Module type		Nickel Metal Hydride		
System data	Max. Power consumption in connection with PLENTICORE plus 3.0-10 <sup>2)</sup>	kW	3.7	3.46
	Usable capacity 95%/100% DoD <sup>3)</sup>	kWh	5.47/5.76	6.57/6.91
	Number of battery modules		4	
	Nominal voltage	V	288	
	Voltage range	V	264-384	
	Interface to inverter		RS485	
	Height/width/depth	mm	945/900/270	
	Weight	kg	200	
	Ambient temperature	°C	-10...40	
	IP protection class		IP 20	
Certification / Safety Standard		CE, EN 61439-1:2011, EN 61439-2:2011, IEC 61010		
EMC		EN 61000-6-2:2005 (Immunity) EN 61000-6-3:2007 (Emission)		

Subject to technical changes. Errors excepted. You can find current information at [www.kostal-solar-electric.com](http://www.kostal-solar-electric.com).

<sup>1)</sup> Does not apply to all national annexes, <sup>2)</sup> Depending on the max. Rated power AC of the inverter (PLENTICORE plus 3.0 max. 3.0 kW), <sup>3)</sup> According to the battery manufacturer