



Smart  
connections.

## Technical Specification

PLENTICORE plus with PIKO Battery Li

	PLENTICORE plus power class		4.2	5.5	7.0	8.5	10	
Input side (DC)	Max. PV power (cos φ = 1)	kWp	6.3	8.25	10.5	12.75	15	
	Nominal DC power	kW	4.33	5.67	7.22	8.76	10.31	
	Input voltage range (U <sub>DCmin</sub> - U <sub>DCmax</sub> )	V	120...1000					
	MPP working voltage range (U <sub>MPPworkmin</sub> - U <sub>MPPworkmax</sub> )	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 <sub>DCworkbatmin</sub> - U <sub>DCworkbatmax</sub> )	V	120...500					
Max. charging current/discharging current at battery input	A	13/13						
Output side (AC)	Rated power, cos φ = 1 (P <sub>AC,r</sub> )	kW	4.2	5.5	7.0	8.5	10	
	Output voltage (U <sub>ACmin</sub> - U <sub>ACmax</sub> )	V	320...460					
	Rated output current (I <sub>AC,r</sub> )	A	6.06	7.94	10.10	12.27	14.43	
	Max. output current (I <sub>ACmax</sub> )	A	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					
η	Max. efficiency	%	97.1	97.1	97,2	97.2	97.2	
	European efficiency	%	96.2	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 Stecker					
	Directives/Certification <sup>1)</sup>		CE, GS, EN 62109-1, EN 62109-2, EN 60529, CEI 0-21, EN 50438*, G83/2, IEC 61727, IEC 62116, RD 1699, TOR D4, UNE 206006 IN, UNE 206007-1 IN, UTE C15-712-1, VDE 0126-1-1, VDE-AR-N 4105					
	PIKO Battery Li over class		3.6	4.8	6.0	7.2	8.4	9.6
System data	Max. Power consumption in connection with PLENTICORE plus 4.2-10 <sup>4)</sup>	kW	2.0	2.66	3.6	4.0	4.65	5.33
	Total energy content (C5 <sup>2)</sup> )	kWh	3.6	4.8	6.0	7.2	8.4	9.6
	Number of battery modules		3	4	5	6	7	8
	Battery type		Lithium iron phosphate (LiFePO <sub>4</sub> )					
	Nominal voltage	V	153	205	258	307	358	410
	Voltage range	V	120...173	160...230	200...288	240...345	280...403	320...460
	Interface to inverter		RS485					
	Height/width/depth	mm	1145/550/655 <sup>3)</sup>			1145/550/575		
	Weight	kg	120	136	153	169	186	202
	Ambient temperature	°C	10...30					
	IP protection class		IP 20					
Certification / Safety Standard		UN38.3, EN62311:2008, EN50178, EN62109-1, IEC 61508-1:2008, CE, Safety Guide Li-ion Home Storage						

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 to EN 50438

<sup>2)</sup> C5 = Capacity with 5-hour discharge

<sup>3)</sup> With tilt bracket,

<sup>4)</sup> Depending on the max. Rated power AC of the inverter (4.2 max 4.2 kW)