

PLENTICORE plus

with PYLONTECH Force-H1/H2



Technical Specification

	PLENTICORE plus power class		3.0	4.2	5.5	7.0	8.5	10
Input side (DC)	Max. PV power(cos φ = 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: shop.kostal-solar-electric.com							
	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 φ = 1 (P _{AC,r})	kW	3.0	4.2	5.5	7.0	8.5	10
	Output voltage (U _{ACmin} - U _{ACmax})	V	320...500					
	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 ⁴⁾
	Grid connection		3N~, 230/400 V, 50 Hz					
	Standby	W	7.9					
η	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 ¹⁾		CE, GS, CEI 0-21, CEI10/11, EN 62109-1, EN 62109-2, EN 60529, EN 50438*, EN 50549-1*, NA/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					

System data	PYLONTECH		Force-H1-V2 ⁴⁾					Force-H2-V2 ⁵⁾		
	Module type		Li-Ion LFP 3.552kWh, 48V, 74Ah, 36kg					Li-Ion LFP 3.552kWh, 96V, 37Ah, 35kg		
	Max. Power consumption in connection with PLENTICORE plus 3.0-10 ²⁾	kW	1.87	2.50	3.12	3.74	4.37	2.50	3.74	4.99
	Usable capacity 95%/100% DoD ³⁾	kWh	10.1/ 10.65	13.5/ 14.20	16.9/ 17.76	20.2/ 21.31	23.6/ 24.86	6.7/ 7.10	10.1/ 10.65	13.5/ 14.20
	Number of battery modules		3	4	5	6	7	2	3	4
	Nominal voltage	V	144	192	240	288	336	192	288	384
	Voltage range	V	130.5- 162	174- 216	217.5- 270	261- 324	304.5- 378	174- 216	261- 324	348- 432
	Interface to inverter		RS485							
	Height	mm	700	870	1040	1210	1380	822	1118	1414
	Width/depth	mm	600/380					450/296		
	Weight	kg	122	158	194	230	266	82	117	152
	Ambient temperature	°C	-0...50							
	IP protection class		IP 55							
	Certification / Safety Standard		VDE2510-50, IEC62619, IEC62477, IEC62040, UN38.3, CE							
	EMC		EN 61000-6-2, EN 61000-6-3							

Subject to technical changes. Errors excepted. You can find current information at www.kostal-solar-electric.com.

¹⁾ Does not apply to all national annexes, ²⁾ Depending on the max. Rated power AC of the inverter (PLENTICORE plus 3.0 max. 3.0 kW), ³⁾ According to the battery manufacturer, ⁴⁾ Pylontech Force-H1-V2 battery compatible with BMS modul: FC0500-40S-V2 mit article number 11FC0500ZZA-00013, ⁵⁾ Pylontech Force-H2-V2 battery compatible with BMS modul: FC0500M-40S-V2 mit article number 11FC0500MZA-00013