

PLENTICORE plus

with Wintersun



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					

	Wintersun		Power-CORE 1.0				Energy-CORE 1.0				
	Modul type		2.76 kWh, 102.4 V, 25 Ah, 35 kg, LFP				3.2 kWh, 64 V, 50 Ah, 36.5 kg, LFP				
System data	Number of battery modules		2	3	4	5	4	5	6	7	8
	Usable capacity 95%/100% DoD ³⁾	kWh	5.24 / 5.52	7.87 / 8.28	10.49 / 11.04	13.11 / 13.80	12.16 / 12.8	15.20 / 16.00	18.24 / 19.20	21.28 / 22.40	24.32 / 25.60
	Max. Power consumption in connection with PLENTICORE plus 3.0-10 ²⁾	kW	2.65	3.99	5.32	6.5	3.3	4.16	4.99	5.82	6.5
	Nominal voltage	V	205	307	410	512	256	320	384	448	512
	Voltage range	V	173-234	259-350	346-467	432-584	216-292	270-365	324-438	378-511	432-584
	Height	mm	625	800	975	1150	975	1150	1325	1500	1675
	Width/depth	mm	585/298								
	Weight	kg	90	125	160	195	166	205	239	276	312
	Interface to inverter		RS485								
	Ambient temperature	°C	-10...55								
	IP protection class		IP 65								
	Certification / Safety Standard		VDE2510-50 / IEC62619 / CEC / CE / UN38.3								

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, 4.2 max 4.2 kW and 5.5 max 5.5 kW)

³⁾ Test Conditions: 0.2 C charge and discharge at + 25 °C, real usable capacity with inverter system / theoretically usable capacity acc. Wintersun battery data sheet at 100% DoD