

PLENTICORE plus

with Dyness Tower



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	Dyness		Tower T7	Tower T10	Tower T14	Tower T17
	Module type		Li-Ion LFP			
			3.552kWh, 96V, 37Ah, 41kg			
	Max. Power consumption in connection with PLENTICORE plus 3.0-10 ²⁾	kW	2.5	3.7	4.9	6.2
	Usable capacity 95%/100% DoD ³⁾	kWh	6.7/7.1	10.2/10.7	13.5/14.2	16.9/17.8
	Number of battery modules		2	3	4	5
	Nominal voltage	V	192	288	384	480
	Voltage range	V	168-219	252-328	336-438	420-547
	Interface to inverter		RS485			
	Height	mm	700	900	1100	1300
	Width/depth	mm	504/380			
	Weight	kg	105	146	187	228
	Ambient temperature	°C	-0...50			
	IP protection class		IP54			
	Certification / Safety Standard		IEC 62040-1, IEC 62619, IEC 63056, UL 1973, CE			
	EMC		EN 61000-6-1, EN 61000-6-2, EN 61000-6-3, EN 61000-6-4			

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