



Smart
connections.

Technical Specification

PLENTICORE plus with BYD B-Box HV

	PLENTICORE plus over class		4.2	5.5	7.0	8.5	10	
Input side (DC)	Max. PV power (cos $\varphi = 1$)	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 ($U_{DCmin} - U_{DCmax}$)	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...500					
	Max. charging current/discharging current at battery input	A	13/13					
Output side (AC)	Rated power, cos $\varphi = 1$ ($P_{AC,r}$)	kW	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	6,06	7,94	10,10	12,27	14,43	
	Max. output current (I_{ACmax})	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 housing / fan		IP 65 / IP 55					
	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 ¹⁾		CE, GS, EN 62109-1, EN 62109-2, EN 60529, IEC 61683, 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					
	BYD Battery-Box HV over class		H 6.4	H 7.7	H 9.0	H 10.2	H 11.5	
System data	Max. Power consumption in connection with PLENTICORE plus 4.2-10	kW	3,33	4,00	4,65	5,32	6,00	
	Usable capacity ²⁾	kWh	6,40	7,68	8,96	10,24	11,52	
	Number of battery modules		5	6	7	8	9	
	Battery type		Lithium iron phosphate (LiFePO ₄)					
	Nominal voltage	V	256	307	358	409	460	
	Voltage range	V	200...282	240...338	280...395	320...451	360...500	
	Interface to inverter		RS485					
	Height/width/depth	mm	580/894/380	580/1014/380	580/1134/380	580/1254/380	580/1374/380	
	Weight	kg	148	174	200	226	252	
	Ambient temperature	°C	-10...50					
IP protection class		IP 55						
Certification / Safety Standard ²⁾		CE, UL1642, TÜV(IEC62619), RCM, UN38.3, Safety Guide Li-ion Home Storage						

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 to EN 50438

²⁾ Test Conditions: 100% DOD, 0,2 C charge and discharge at + 25 ° C