



Smart
connections.

Technical Specification

PLENTICORE plus with BYD Battery-Box HV

	PLENTICORE plus power 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		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 ¹⁾		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				
	BYD Battery-Box HV power 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 ²⁾	kW	3.33	4.00	4.65	5.32	6.00
	Usable capacity ³⁾	kWh	6.08	7.30	8.51	9.73	10.94
	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	894/580/380	1014/580/380	1134/580/380	1254/580/380	1374/580/380
	Weight	kg	148	174	200	226	252
	Ambient temperature	°C	-10...50				
	IP protection class		IP 55				
	Certification / Safety Standard		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⁾ Depending on the max. Rated power AC of the inverter (4.2 max 4.2 kW and 5.5 max 5.5 kW),

³⁾ Test Conditions: 95% DOD, 0,2 C charge and discharge at + 25 ° C