



Smart
connections.

Technical Specification

PLENTICORE BI
with BYD Battery-Box HV

BI
Battery Inverter

Input side (DC)	PLENTICORE BI power class		5.5/13	
	Working voltage for battery input ($U_{DCworkbatmin} - U_{DCworkbatmax}$)	V	120...650	
	Nominal battery power	kW	470	
	Max. charge current / discharge current battery input	V	13/13	
Output side (AC)	Number of DC inputs	V	1	
	Rated power, $\cos \varphi = 1$ ($P_{AC,r}$)	kW	5.5	
	Max. apparent output power, $\cos \phi_{adj}$	kVA	5.5	
	Output voltage ($U_{ACmin} - U_{ACmax}$)	V	320...460	
	Rated output current ($I_{AC,r}$)	A	7.94	
	Max. output current (I_{ACmax})	A	8.82	
	Grid connection		3N~, 400V, 50 Hz	
η	Standby / Standby night consumption	W	7.9 / 4.5	
	Max. efficiency Bat2AC	%	96.7	
System data	Max. efficiency AC2Bat	%	96.6	
	Protection class according to IEC 60529		IP 65	
	Height/width/depth	mm	563/405/233	
	Weight	kg	19.6	
	Ambient temperature	°C	-20...60	
	Connection technology, DC side		SUNCLIX Stecker	
Directives/Certification			CE, GS, IEC62109-1, IEC62109-2, EN60529, DIN VDE 0126-1-1:2013-08, VDE AR-N4105:2018, VDE AR-N4100:2018, TOR Erzeuger, ÖNORM E8001-4-712/A2:2016, NA/EEA-CH 2014, IEC62116:2014	

System data	BYD Battery-Box HV power class		H 6.4	H 7.7	H 9.0	H 10.2	H 11.5
	Max. Power consumption in connection with PLENTICORE BI ¹⁾	kW	3.33	4.00	4.65	5.32	6.00
	Usable capacity ²⁾	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⁾ Depending on the max. Rated power AC of the inverter

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