



Smart
connections.

Technical Specification

PLENTICORE BI 5.5/26 - 10/26
with BYD Battery-Box Premium
HVS/HVM

BI
Battery Inverter

	PLENTICORE BI power class		5.5/26	10/26
Input (DC)	Working voltage for battery input ($U_{DCworkbatmin} - U_{DCworkbatmax}$)	V	120...650	
	Charging current/discharging current at battery input	A	26/26	26/26
	Number of DC inputs		1	
Output (AC)	Rated power, $\cos \varphi = 1$ ($P_{AC,r}$)	kW	5.5	10
	Max. apparent output power, $\cos \phi_{adj}$	kVA	5.5	10
	Min. Output voltage (U_{ACmin})	V	320	
	Max. Output voltage (U_{ACmax})		460	
	Rated output current ($I_{AC,r}$)	A	7.94	14.43
	Max. output current (I_{ACmax})	A	8.82	16.04
	Grid connection		3N~, 400V, 50 Hz	
	Standby / Standby night consumption	W	7.9	
η	Max. efficiency Bat2AC	%	96.6	96.7
	Max. efficiency AC2Bat	%	96.8	96.8
System data	Protection class according to IEC 60529		IP 65	
	Height/width/depth	mm	563/405/233	
	Weight	kg	17.9	19.9
	Ambient temperature	°C	-20...60	
	Connection technology, DC side		SUNCLIX plug	
Directives/Certification ¹⁾		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		

	BYD Battery-Box Premium	HVS 5.1	HVS 7.7	HVS 10.2	HVS 12.8	HVM 13.8	HVM 16.6	HVM 19.3	HVM 22.1	
	Modul type	HVS (High Voltage Small) 2.56kWh, 102.4V, 25Ah, 38kg, LiFePO ₄				HVM (High Voltage Medium) 2.76kWh, 51.2V, 53Ah, 38kg, LiFePO ₄				
System data	Max. Power consumption in connection with PLENTICORE BI 5.5/26	kW	5.1	5.5						
	Max. Power consumption in connection with PLENTICORE BI 10/26	kW	5.1	7.7	10	10	6.66	7.98	9.3	10
	Usable capacity 95%/100% DoD ²⁾	kWh	4.86/ 5.12	7.30/ 7.68	9.73/ 10.24	12.16/ 12.8	13.11/ 13.8	15.73/ 16.56	18.35/ 19.32	20.98/ 22.08
	Number of battery modules		2	3	4	5	5	6	7	8
	Nominal voltage	V	204	307	409	512	256	307	358	409
	Voltage range	V	160-240	240-360	320-480	400-600	200-300	240-360	280-420	320-480
	Interface to inverter		RS485							
	Height	mm	712	945	1178	1411	1411	1644	1877	2110
	Width/depth	mm	585/298							
	Weight	kg	91	129	167	205	205	243	281	319
	Ambient temperature	°C	-10...50							
	IP protection class		IP 55							
	Certification / Safety Standard		VDE2510-50 / IEC62619 / CEC / CE / UN38.3							

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⁾ Test Conditions: 0,2 C charge and discharge at + 25 °C, real usable capacity with Plenticoe BI system / theoretically usable capacity acc. BYD battery data sheet at 100% DoD