

# PLENTICORE BI

5.5/26 and 10/26 with battery



Technical Specification

# PLENTICORE BI 5.5/26-10/26



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	
	Number of DC inputs	1	
Output (AC)	Rated power, $\cos \varphi = 1$ ( $P_{AC,r}$ )	kW 5.5 / 10	
	Max. apparent output power, $\cos \varphi_{adj}$	kVA 5.5 / 10	
	Min. Output voltage ( $U_{ACmin}$ )	V 320	
	Max. Output voltage ( $U_{ACmax}$ )	500	
	Rated output current ( $I_{AC,r}$ )	A 7.94 / 14.43	
	Max. output current ( $I_{ACmax}$ )	A 8.82 / 16.04	
	Grid connection	3N~, 230/400V, 50 Hz	
$\eta$	Standby / Standby night consumption	W 7.9	
	Max. efficiency Bat2AC	% 96.6 / 96.7	
System data	Max. efficiency AC2Bat	% 96.8 / 96.8	
	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 <sup>1)</sup>	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		

Subject to technical changes. Errors excepted. You can find current information at [www.kostal-solar-electric.com](http://www.kostal-solar-electric.com).

<sup>1)</sup> Does not apply to all national annexes

## PLENTICORE BI 5.5/26-10/26 with AXITEC AXIstorage Li SV1/SV2



AXITEC AXIstorage Li SVx		SV1 10.1 <sup>2)</sup>	SV1 13.5 <sup>2)</sup>	SV1 16.9 <sup>2)</sup>	SV1 20.2 <sup>2)</sup>	SV1 23.6 <sup>2)</sup>	SV2 6.7 <sup>3)</sup>	SV2 10.1 <sup>3)</sup>	SV2 13.5 <sup>3)</sup>		
System data	Module type	Li-Ion LFP 3.552 kWh, 48 V, 74 Ah, 36 kg					Li-Ion LFP 3.552kWh, 96V, 37Ah, 35kg				
	Max. Power consumption in connection with PLENTICORE BI 5.5/26	kW	3.7	5.0	5.5	5.5	5.5	5.0	5.5	5.5	
	Max. Power consumption in connection with PLENTICORE BI 10/26	kW	3.7	5.0	6.2	7.5	8.7	5.0	7.5	10	
	Usable capacity 95%/100% DoD <sup>1)</sup>	kWh	10.1/ 10.65	13.5/ 14.20	16.9/ 17.76	20.2/ 21.31	23.6/ 24.86	6.7/ 7.10	10.1/ 10.65	13.5/ 14.20	
	Number of battery modules		3	4	5	6	7	2	3	4	
	Nominal voltage	V	144	192	240	288	336	192	288	384	
	Voltage range	V	130.5- 162	174- 216	217.5- 270	261- 324	304.5- 378	174- 216	261- 324	348- 432	
	Interface to inverter		RS485								
	Height	mm	700	870	1040	1210	1380	822	1118	1414	
	Width/depth	mm	600/380					450/296			
	Weight	kg	122	158	194	230	266	82	117	152	
	Ambient temperature	°C	-0...50								
	IP protection class		IP 55								
	Certification / Safety Standard		VDE2510-50, IEC62619, IEC62477-1, IEC62040-1, CEC, CE, UN38.3								
EMC		EN 61000-6-2, EN 61000-6-3									

<sup>1)</sup> According to the battery manufacturer, <sup>2)</sup> Axitec AXIstorage Li SV1 battery compatible with BMS module: Li SV1 BMS with article number: AY10785, <sup>3)</sup> Axitec AXIstorage Li SV2 battery compatible with BMS module: Li SV2 BMS with article number: AY10786

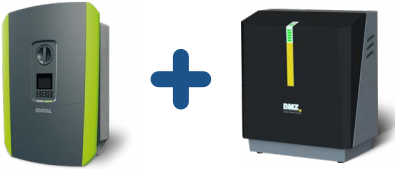
## PLENTICORE BI 5.5/26-10/26 with AXITEC AXIstorage Li SH



BMZ HYPERION		3 Modules	4 Modules	5 Modules	6 Modules	
Systemdaten	Max. Power consumption in connection with PLENTICORE BI 5.5/26	kW	4,0	5,4	5,5	5,5
	Max. Power consumption in connection with PLENTICORE BI 10/26	kW	-	-	6,7	8,1
	Energy content / Usable capacity <sup>1)</sup>	kWh	9,7/7,5	12,9/10	16,1/12,5	19,3/15
	Usable capacity with PLENTICORE plus 95% DoD <sup>2)</sup>	kWh	7,1	9,5	11,9	14,3
	Number of battery modules		3	4	5	6
	Battery type		Li-Ion NMC			
	Nominal voltage	V	155	207	258	310
	Voltage range	V	134...170	179...227	224...284	268...340
	Interface to inverter		RS485			
	Width/height/depth	mm	751/870/423			
Weight	kg	107	129	151	173	
Ambient temperature	°C	0...45				
IP protection class		IP 21				
Certification / Safety Standard		CE / UN 38.3 / IEC 62619				

<sup>1)</sup> According to the battery manufacturer, <sup>2)</sup> 95% of the usable capacity according to the battery manufacturer

## PLENTICORE BI 5.5/26-10/26 with BMZ HYPERION



BMZ HYPERION		3 Modules	4 Modules	5 Modules	6 Modules	
System data	Max. Power consumption in connection with PLENTICORE BI 5.5/26	kW	4.0	5.4	5.5	5.5
	Max. Power consumption in connection with PLENTICORE BI 10/26	kW	-	-	6.7	8.1
	Energy content / Usable capacity <sup>1)</sup>	kWh	9.7/7.5	12.9/10	16.1/12.5	19.3/15
	Usable capacity with PLENTICORE plus 95% DoD <sup>2)</sup>	kWh	7.1	9.5	11.9	14.3
	Number of battery modules		3	4	5	6
	Battery type		Li-Ion NMC			
	Nominal voltage	V	155	207	258	310
	Voltage range	V	134...170	179...227	224...284	268...340
	Interface to inverter		RS485			
	Width/height/depth	mm	751/870/423			
	Weight	kg	107	129	151	173
	Ambient temperature	°C	0...45			
	IP protection class		IP 21			
Certification / Safety Standard		CE / UN 38.3 / IEC 62619				

<sup>1)</sup> According to the battery manufacturer, <sup>2)</sup> 95% of the usable capacity according to the battery manufacturer

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



BYD Battery-Box Premium		HVS 5.1	HVS 7.7	HVS 10.2	HVS 12.8	HVM 11.0	HVM 13.8	HVM 19.3	HVM 22.1
Module type		HVS (High Voltage Small) 2.56 kWh, 102.4 V, 25 Ah, 38 kg, LiFePO <sub>4</sub>				HVM (High Voltage Medium) 2.76 kWh, 51.2 V, 53 Ah, 38 kg, LiFePO <sub>4</sub>			
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 <sup>1)</sup>	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							

<sup>1)</sup> est Conditions: 0.2 C charge and discharge at +25 °C, real usable capacity with Plenticore BI system / theoretically usable capacity acc. BYD battery data sheet at 100% DoD

## PLENTICORE BI 5.5/26-10/26 with Dyness Tower



Dyness Tower		T7	T10	T14	T17
System data	Module type	Li-Ion LFP 3.552 kWh, 96 V, 37 Ah, 41 kg <sup>2)</sup>			
	Max. Power consumption in connection with PLENTICORE BI 5.5/26	5.0	5.5		
	Max. Power consumption in connection with PLENTICORE BI 10/26	5.0	7.5	10	
	Usable capacity 95%/100% DoD <sup>1)</sup>	6.7/7.1	10.1/10.7	13.5/14.2	16.9/17.8
	Number of battery modules	2	3	4	5
	Nominal voltage	192	288	384	480
	Voltage range	168-219	252-328	336-438	420-547
	Interface to inverter	RS485			
	Height/Wight	700	900	1100	1300
	Depth	504/380			
	Weight	105	146	187	228
	Operating temperature	-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				

<sup>1)</sup> According to the battery manufacturer, <sup>2)</sup> The weight of the bracket and design cover is not included.

## PLENTICORE BI 5.5/26-10/26 with LG RESU FLEX



LG Energy Solution		RESU FLEX 8.6	RESU FLEX 12.9	RESU FLEX 17.2
System data	Module type	Li-Ion NMC, BMA 48.9 kg <sup>2)</sup> , BPU 16.5 kg <sup>2)</sup>		
	Max. Power consumption in connection with PLENTICORE BI 5.5/26	5.5		
	Max. Power consumption in connection with PLENTICORE BI 10/26	5.8	8.8	10
	Usable capacity 95%/100% DoD <sup>1)</sup>	8.17/8.60	12.26/12.90	16.34/17.20
	Number of battery modules	2	3	4
	Voltage range	192-265.6	288-398.4	384-531.2
	Interface to inverter	RS485		
	Height/Wight	665.2/665.2		
	Depth	445.2	593.6	742
	Weight	114.3	163.2	212.1
	Operating temperature	-10...50		
	IP protection class	IP 55		
	Certification / Safety Standard	CE, RCM, UL1973, IEC62619, IEC62477-1		
	EMC	FCC, IEC61000-6-1, IEC61000-6-2, IEC61000-6-3		

<sup>1)</sup> According to the battery manufacturer, <sup>2)</sup> The weight of the bracket and design cover is not included.

# PLENTICORE BI 5.5/26-10/26 with PYLONTECH Force-H1/H2



PYLONTECH Force		H1-V2 10.65 <sup>2)</sup>	H1-V2 14.20 <sup>2)</sup>	H1-V2 17.76 <sup>2)</sup>	H1-V2 21.31 <sup>2)</sup>	H1-V2 24.86 <sup>2)</sup>	H2-V2 7.10 <sup>3)</sup>	H2-V2 10.65 <sup>3)</sup>	H2-V2 14.21 <sup>3)</sup>		
System data	Module type	Li-Ion LFP 3.552 kWh, 48 V, 74 Ah, 36 kg					Li-Ion LFP 3.552kWh, 96V, 37Ah, 35kg				
	Max. Power consumption in connection with PLENTICORE BI 5.5/26	kW	3.7	5.0	5.5	5.5	5.5	5.0	5.5	5.5	
	Max. Power consumption in connection with PLENTICORE BI 10/26	kW	3.7	5.0	6.2	7.5	8.7	5.0	7.5	10	
	Usable capacity 95%/100% DoD <sup>2)</sup>	kWh	10.1/ 10.65	13.5/ 14.20	16.9/ 17.76	20.2/ 21.31	23.6/ 24.86	6.7/ 7.10	10.1/ 10.65	13.5/ 14.21	
	Number of battery modules		3	4	5	6	7	2	3	4	
	Nominal voltage	V	144	192	240	288	336	192	288	384	
	Voltage range	V	130,5- 162	174- 216	217,5- 270	261- 324	304,5- 378	174- 216	261- 324	348- 432	
	Interface to inverter		RS485								
	Height	mm	700	870	1040	1210	1380	822	1118	1414	
	Width/depth	mm	600/380					450/296			
	Weight	kg	122	158	194	230	266	82	117	152	
	Ambient temperature	°C	-0...50								
	IP protection class		IP 55								
	Certification / Safety Standard		VDE2510-50, IEC62619, IEC62477, IEC62040, UN38.3, CE								
EMC		EN 61000-6-2, EN 61000-6-3									

<sup>1)</sup> According to the battery manufacturer, <sup>2)</sup> Pylontech Force-H1-V2 battery compatible with BMS modul: FC0500-40S-V2 mit article number 11FC0500ZZA-00013, <sup>3)</sup> Pylontech Force-H2-V2 battery compatible with BMS modul: FC0500M-40S-V2 mit article number 11FC0500MZA-00013

