SOLAR ELECTRIC

KOSTAL

PLENTICORE BI

Battery inverter - 5.5/26 – 10/26 kW



Data sheet

PLENTICORE BI: The efficient AC battery inverter

All-in-one

- Compatible with the high voltage battery Battery Box Premium HVM/HVS by BYD [1,2)]
- Application range for single-family homes to commercial
- Ideal for retrofitting existing PV systems

Smart connected

- Smart Communication Board – future proof, new functions can be added via the integrated Web Application
- Display, data logger, system monitoring, network and control interfaces integrated as standard
- Free Solar Portal for monitoring the PV system
- Modbus/Sunspec (TCP) for Smart Home integration



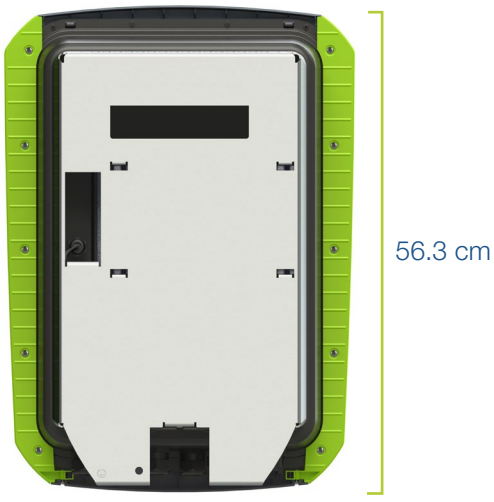
Smart performance

- Low conversion losses due to high-voltage battery
- Battery charging from various AC energy sources [2)]
- Flexible Scalable by connecting battery storages in the size 5.1 – 66.3 kWh
- Peak shaving (short-term and rapid reduction of peak loads) [2)]
- Timed Battery Control – Charging/Discharging when power consumption is low / high [2)]

Easy to install

- Simple device configuration using commissioning wizard
- Safe installation due to clearly arranged, separate terminal compartment and protected power electronics
- Compatible with RCD type A
- Auto Update: Always at the cutting edge of technology

PLENTICORE BI: compact and rapidly deployable







[1)] Battery function enabled at the factory (no battery activation code required).
[2)] KOSTAL Smart Energy Meter necessary

Technical data PLENTICORE BI

	Power class PLENTICORE BI		5.5/26	10/26
Input (DC)	Working voltage for battery input ($U_{DCworkbatmin}$ - $U_{DCworkbatmax}$)	V	120...650	
	Max. charging/discharging current at battery input	A	26/26	26/26
	Number of DC inputs		1	
Output (AC)	Rated power, cos φ = 1 ($P_{AC,r}$)	kW	5.5	10
	Apparent output power ($S_{AC,Nom}$, $S_{AC,max}$)	kVA	5.5	10
	Min. output voltage (U_{ACmin})	V	320	
	Max. output voltage (U_{ACmax})	V	500	
	Rated output current ($I_{AC,r}$)	A	7.94	14.43
	Max. output current (I_{ACmax})	A	8.82	16.04
	Short-circuit current (peak/RMS)	A	12.5/8.8	22.8/16.1
	Grid connection		3N~, 230/400 V, 50 Hz	
	Rated frequency (f_r)	Hz	50	
	Min/max grid frequency (f_{min}/f_{max})	Hz	47/53	
	Setting range of the power factor (cos $\varphi_{AC,r}$)		0.8 ...1... 0.8	
	Power factor for rated power (cos $\varphi_{AC,r}$)		1	
	Max. THD	%	3	
	Standby	W	7.9	
η	Max. efficiency Bat2AC	%	96.6	96.7
	Max. efficiency AC2Bat	%	96.8	96.8

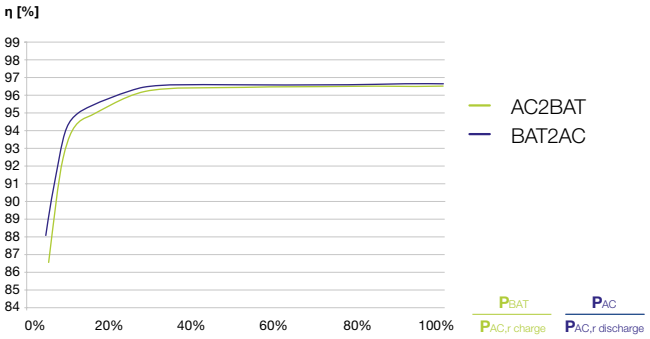
	Power class PLENTICORE BI		5.5/26	10/26
System data	Topology: Without galvanic isolation – transformerless		✓	
	Protection class according to IEC 60529		IP 65	
	Protective class according to IEC 62103		I	
	Overvoltage category according to IEC 60664-1, output side (grid connection)		III	
	Degree of contamination		4	
	Environmental category (indoor installation)		✓	
	UV resistance		✓	
	AC cable diameter (min-max)	mm	8...17	
	AC cable cross-section (min-max)	mm^2	1.5...6	4...6
	BAT cable cross-section	mm^2	6	6
	Max. fuse protection on output side		B16/C16	B25/C25
	Internal operator protection according to EN 62109-2 (compatible with RCD type A)		✓	
	Independent disconnection device according to VDE 0126-1-1		✓	
	Height/width/depth	mm	563/405/233	
	Weight	kg	17.9	19.9
	Cooling principle – regulated fans		✓	
	Max. air throughput	m^3/h	184	
	Noise emission (typical)	dB(A)	39	
	Ambient temperature	°C	-20…60	
	Max. installation altitude above sea level	m (ft)	2000	
	Relative humidity	%	4…100	
	Connection technology, DC side		SUNCLIX plug	
	Connection technology, AC side		Spring-type terminal strip	
Interfaces	Ethernet LAN (RJ45)		1	
	Connection of energy meter for collecting energy data (Modbus RTU)		1	
	Digital inputs (e.g. for digital ripple control receiver)		4	
	USB 2.0		1	
	Webserver (user interface)		✓	
	Warranty (Smart Warranty / Smart Warranty plus [1])	Years	10 (5 + 5)	
	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:2014, IEC62116:2014	

Subject to technical changes. Errors excepted. You can find current information at www.kostal-solar-electric.com. Manufacturer: KOSTAL Industrie Elektrik GmbH, Hagen, Germany

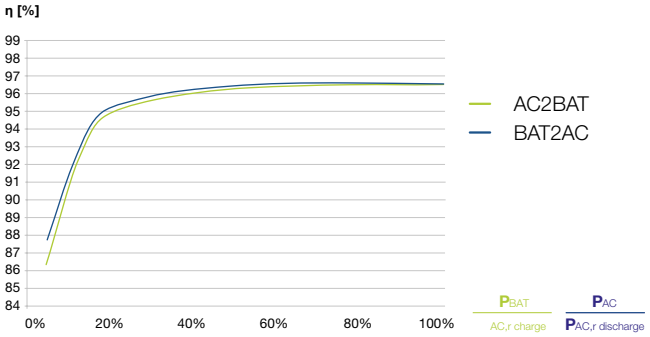
[1] Activate your free warranty (Smart Warranty) now in the KOSTAL Solar online shop (shop.kostal-solar-electric.com). This does not affect your statutory warranty. You will find more information about the service and warranty conditions in the download area for your product.

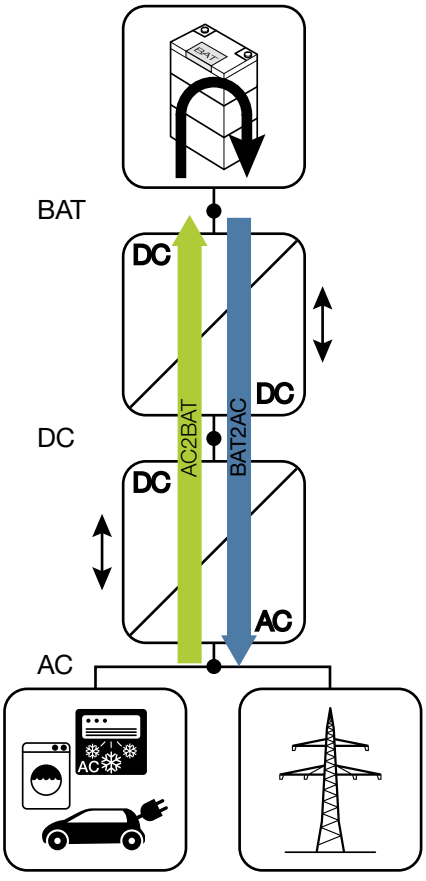


PLENTICORE BI 5.5/26



PLENTICORE BI 10/26





Services for our products

FAQs:
kostal-solar-electric.com/Service_Support

Product registration, KOSTAL Smart Warranty, warranty extension or purchase of accessories:
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Get in touch: service-solar@kostal.com

www.kostal-solar-electric.com

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You can find current information at www.kostal-solar-electric.com. Manufacturer: KOSTAL Industrie Elektrik GmbH, Hagen, Germany

SOLAR ELECTRIC

KOSTAL

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	26/26
	Number of DC inputs		1	
Output (AC)	Rated power, cos φ = 1 ($P_{AC,r}$)	kW	5.5	10
	Max. apparent output power, cos ϕ, $_{adj}$	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~, 230/400 V, 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	

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

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



	AXITEC AXIstorage Li SH		5 Modules	6 Modules
System data	Module type		Li-Ion NMC	
	Max. Charging/discharging current battery system	A	29/29	
	Max. Charging/discharging current battery input inverter	A	26/26	
	Max. Power consumption with PLENTICORE BI 5.5/26	kW	5.5[2)]	5.5[2)]
	Max. Power consumption with PLENTICORE BI 10/26	kW	6.7[2)]	8.1[2)]
	Usable capacity 95% DoD[1)]	kWh	11.9	14.3
	Usable capacity 100% DoD[1)]	kWh	12.5	15.0
	Number of battery modules		5	6
	Nominal voltage	V	258	310
	Voltage range	V	224...284	268...340
	Interface to inverter		RS485	
	Height		870	
	Width/depth	mm	751/423	
	Weight	kg	151	173
	Ambient temperature	°C	0…45	
	IP protection class		IP 21	
	Certification / Safety Standard		CE, UN 38.3, IEC 62619	

1) According to the battery manufacturer
2) Due to §14a (controllable consumers), please note that in Germany certain inverter/battery combinations must be externally controllable by the energy supplier so that the maximum possible battery charging capacity from the grid does not exceed 4.2 kWh. Further information on this can be found in the inverter operating instructions under 'External battery control via digital inputs'

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



	AXITEC AXIstorage Li SV1		SV1 10.1[3]	SV1 13.5[3]	SV1 16.9[3]	SV1 20.2[3]	SV1 23.6[3]
System data	Module type		Li-Ion LFP 3.552 kWh, 48 V, 74 Ah, 36 kg				
	Max. Charging/discharging current battery system	A	40/40				
	Max. Charging/discharging current battery input inverter	A	26/26				
	Max. Power consumption with PLENTICORE BI 5.5/26	kW	3.7	5.0[2]	5.5[2]	5.5[2]	5.5[2]
	Max. Power consumption with PLENTICORE BI 10/26	kW	3.7	5.0[2]	6.2[2]	7.5[2]	8.7[2]
	Usable capacity 95% DoD[1]	kWh	10.1	13.5	16.9	20.2	23.6
	Usable capacity 100% DoD[1]	kWh	10.7	14.2	17.8	21.3	24.9
	Number of battery modules		3	4	5	6	7
	Nominal voltage	V	144	192	240	288	336
	Voltage range	V	130.5-162	174-216	217.5-270	261-324	304.5-378
	Interface to inverter		RS485				
	Height		700	870	1040	1210	1380
	Width/depth	mm	600/380				
	Weight	kg	122	158	194	230	266
	Ambient temperature	°C	0...50				
	IP protection class		IP 55				
	Certification / Safety Standard		VDE2510-50, IEC62619, IEC62477-1, IEC62040-1, CEC, CE, UN38.3,# EN 61000-6-2, EN 61000-6-3				

1) According to the battery manufacturer
2) Due to §14a (controllable consumers), please note that in Germany certain inverter/battery combinations must be externally controllable by the energy supplier so that the maximum possible battery charging capacity from the grid does not exceed 4.2 kWh. Further information on this can be found in the inverter operating instructions under 'External battery control via digital inputs'
3) Axitec AXIstorage Li SV1 battery compatible with BMS module: Li SV1 BMS with article number: AY10785

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



	AXITEC AXIstorage Li SV2		SV2 6.7[3]	SV2 10.1[3]	SV2 13.5[3]	SV2 16.9[3]
System data	Module type		Li-Ion LFP 3.552kWh, 96V, 37Ah, 35kg			
	Max. Charging/discharging current battery system	A	40/40			
	Max. Charging/discharging current battery input inverter	A	26/26			
	Max. Power consumption with PLENTICORE BI 5.5/26	kW	5.0[2]	5.5[2]	5.5[2]	5.5[2]
	Max. Power consumption with PLENTICORE BI 10/26	kW	5.0[2]	7.5[2]	10[2]	10[2]
	Usable capacity 95% DoD[1]	kWh	6.7	10.1	13.5	16.9
	Usable capacity 100% DoD[1]	kWh	7.1	10.7	14.2	17.8
	Number of battery modules		2	3	4	5
	Nominal voltage	V	192	288	384	480
	Voltage range	V	174-216	261-324	348-432	435-540
	Interface to inverter		RS485			
	Height		822	1118	1414	1710
	Width/depth	mm	600/380			
	Weight	kg	82	117	152	188
	Ambient temperature	°C	0...50			
	IP protection class		IP 55			
	Certification / Safety Standard		VDE2510-50, IEC62619, IEC62477-1, IEC62040-1, CEC, CE, UN38.3,# EN 61000-6-2, EN 61000-6-3			

1) According to the battery manufacturer
2) Due to §14a (controllable consumers), please note that in Germany certain inverter/battery combinations must be externally controllable by the energy supplier so that the maximum possible battery charging capacity from the grid does not exceed 4.2 kWh. Further information on this can be found in the inverter operating instructions under 'External battery control via digital inputs'
3) Axitec AXIstorage Li SV2 battery compatible with BMS module: Li SV2 BMS with article number: AY10786

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



	BMZ HYPERION		5 Modules	6 Modules
System data	Module type		Li-Ion NMC	
	Max. Charging/discharging current battery system	A	29/29	
	Max. Charging/discharging current battery input inverter	A	26/26	
	Max. Power consumption with PLENTICORE BI 5.5/26	kW	5.5[2)]	5.5[2)]
	Max. Power consumption with PLENTICORE BI 10/26	kW	6.7[2)]	8.1[2)]
	Usable capacity 95% DoD[1)]	kWh	11.9	14.3
	Usable capacity 100% DoD[1)]	kWh	12.5	15.0
	Number of battery modules		5	6
	Nominal voltage	V	258	310
	Voltage range	V	224...284	268...340
	Interface to inverter		RS485	
	Height		870	
	Width/depth	mm	751/423	
	Weight	kg	151	173
	Ambient temperature	°C	0…45	
	IP protection class		IP 21	
	Certification / Safety Standard		CE, UN 38.3, IEC 62619	

1) According to the battery manufacturer
2) Due to §14a (controllable consumers), please note that in Germany certain inverter/battery combinations must be externally controllable by the energy supplier so that the maximum possible battery charging capacity from the grid does not exceed 4.2 kWh. Further information on this can be found in the inverter operating instructions under 'External battery control via digital inputs'

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 13.8	HVM 16.6	HVM 19.3	HVM 22.1
System data	Module type		LiFePO4 2.56 kWh, 102.4 V, 25 Ah, 38 kg				LiFePO4 2.76 kWh, 51.2 V, 53 Ah, 38 kg			
	Max. Charging/discharging current battery system	A	25/25				50/50			
	Max. Charging/discharging current battery input inverter	A	26/26							
	Max. Power consumption with PLENTICORE BI 5.5/26	kW	5.1	5.5[2)]	5.5[2)]	5.5[2)]	5.5[2)]	5.5[2)]	5.5[2)]	5.5[2)]
	Max. Power consumption with PLENTICORE BI 10/26	kW	5.1	7.7[2)]	10.0[2)]	10.0[2)]	6.4[2)]	7.7[2)]	9.0[2)]	10.0[2)]
	Usable capacity 95% DoD[1)]	kWh	4.9	7.3	9.7	12.2	13.1	15.7	18.4	21.0
	Usable capacity 100% DoD[1)]	kWh	5.1	7.7	10.2	12.8	13.8	16.6	19.3	22.1
	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		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							

1) According to the battery manufacturer
2) Due to §14a (controllable consumers), please note that in Germany certain inverter/battery combinations must be externally controllable by the energy supplier so that the maximum possible battery charging capacity from the grid does not exceed 4.2 kWh. Further information on this can be found in the inverter operating instructions under 'External battery control via digital inputs'

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



	BYD Battery-Box HVM+		8.3	11.8	13.8	16.6	19.3	22.1
System data	Modul type		LiFePO4 2.76 kWh, 51.2 V, 41.4 kg					
	Max. Charging/discharging current battery system	A	50/50					
	Max. Charging/discharging current battery input inverter	A	26/26					
	Max. Power consumption with PLENTICORE BI 5.5/26	kW	4.0	5.3[2)]	5.5[2)]	5.5[2)]	5.5[2)]	5.5[2)]
	Max. Power consumption with PLENTICORE BI 10/26	kW	4.0	5.3[2)]	6.7[2)]	8.0[2)]	9.3[2)]	10.0[2)]
	Usable capacity 95% DoD[1)]	kWh	7.9	10.5	13.1	15.7	18.4	21.0
	Usable capacity 100% DoD[1)]	kWh	8.3	11.0	13.8	16.6	19.3	22.1
	Number of battery modules		3	4	5	6	7	8
	Nominal voltage	V	153.6	204.8	256.0	307.2	358.4	409.6
	Voltage range	V	120-172.8	160-230.4	200-288	240-345.6	280-403.2	320-460.8
	Interface to inverter		RS485					
	Height	mm	987	1227	1467	1707	1947	2187
	Width/depth	mm	610/282					
	Weight	kg	138.8	180.2	221.6	263	304.4	345.8
	Ambient temperature	°C	-10…50					
	IP protection class		IP 55					
	Certification / Safety Standard		VDE2510-50 / IEC62619 / CE / UKCA / UN38.3					

1) According to the battery manufacturer
2) Due to §14a (controllable consumers), please note that in Germany certain inverter/battery combinations must be externally controllable by the energy supplier so that the maximum possible battery charging capacity from the grid does not exceed 4.2 kWh. Further information on this can be found in the inverter operating instructions under 'External battery control via digital inputs'

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



	BYD Battery-Box HVS+		5.12	7.7	10.2	12.8
System data	Modul type		$LiFePO_4$ 2.56 kWh, 102.4 V, 38.5 kg			
	Max. Charging/discharging current battery system	A	25/25			
	Max. Charging/discharging current battery input inverter	A	26/26			
	Max. Power consumption with PLENTICORE BI 5.5/26	kW	5.1[2)]	5.5[2)]	5.5[2)]	5.5[2)]
	Max. Power consumption with PLENTICORE BI 10/26	kW	5.1[2)]	7.7[2)]	10.0[2)]	10.0[2)]
	Usable capacity 95% DoD[1)]	kWh	4.9	7.3	9.7	12.2
	Usable capacity 100% DoD[1)]	kWh	5.1	7.7	10.2	12.8
	Number of battery modules		2	3	4	5
	Nominal voltage	V	204.8	307.2	409.6	512.0
	Voltage range	V	160-230.4	240-345.6	320-460.8	400-576
	Interface to inverter		RS485			
	Height	mm	747	987	1227	1467
	Width/depth	mm	610/282			
	Weight	kg	91.6	130.1	168.6	207.1
	Ambient temperature	°C	-10…50			
	IP protection class		IP 55			
	Certification / Safety Standard		VDE2510-50 / IEC62619 / CEC / CE / UN38.3			

1) According to the battery manufacturer
2) Due to §14a (controllable consumers), please note that in Germany certain inverter/battery combinations must be externally controllable by the energy supplier so that the maximum possible battery charging capacity from the grid does not exceed 4.2 kWh. Further information on this can be found in the inverter operating instructions under 'External battery control via digital inputs'

PLENTICORE BI 5.5/26-10/26 with BYD Battery-Box HVB



	BYD Battery-Box HVB		8.9	11.9	14.9	17.8	20.8	23.8	26.7	29.7
System data	Module type		LiFePO4 2.97 kWh, 51.2 V, 29 kg							
	Max. Charging/discharging current battery system	A	50/50							
	Max. Charging/discharging current battery input inverter	A	26/26							
	Max. Power consumption with PLENTICORE BI 5.5/26	kW	4.0	5.3[2)]	5.5[2)]	5.5[2)]	5.5[2)]	5.5[2)]	5.5[2)]	5.5[2)]
	Max. Power consumption with PLENTICORE BI 10/26	kW	4.0	5.3[2)]	6.7[2)]	8.0[2)]	9.3[2)]	10.0[2)]	10.0[2)]	10.0[2)]
	Usable capacity 95% DoD[1)]	kWh	8.5	11.3	14.1	16.9	19.8	22.6	22.6	25.4
	Usable capacity 100% DoD[1)]	kWh	8.9	11.9	14.9	17.8	20.8	23.8	23.8	26.7
	Number of battery modules		3	4	5	6	7	8	9	10
	Nominal voltage	V	153.6	204.8	256.0	307.2	358.4	409.6	460.8	512.0
	Voltage range	V	120-172.8	1600-230.4	200-288	240-345.6	280-403.2	320-460.8	360-518.4	400-576
	Interface to inverter		RS485							
	Height		585	691	797	903	1009	1115	1221	1327
	Width/depth	mm	610/282							
	Weight	kg	96	123.3	150.6	177.9	205.2	232.5	259.8	287.1
	Ambient temperature	°C	-20…50							
	IP protection class		IP 55							
	Certification / Safety Standard		VDE2510-50 / IEC62619 / CEC / CE / UKCA / UN38.3							

1) According to the battery manufacturer
2) Due to §14a (controllable consumers), please note that in Germany certain inverter/battery combinations must be externally controllable by the energy supplier so that the maximum possible battery charging capacity from the grid does not exceed 4.2 kWh. Further information on this can be found in the inverter operating instructions under 'External battery control via digital inputs'

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



	Dyness Tower		T7	T10	T14	T17	T21
System data	Module type		Li-Ion LFP 3.552 kWh, 96 V, 37 Ah, 41 kg				
	Max. Charging/discharging current battery system	A	22/22				
	Max. Charging/discharging current battery input inverter	A	26/26				
	Max. Power consumption with PLENTICORE BI 5.5/26	kW	4.2	5.5[2)]	5.5[2)]	5.5[2)]	5.5[2)]
	Max. Power consumption with PLENTICORE BI 10/26	kW	4.2	6.3[2)]	8.4[2)]	10.0[2)]	10.0[2)]
	Usable capacity 95% DoD[1)]	kWh	6.7	10.2	13.5	16.9	20.2
	Usable capacity 100% DoD[1)]	kWh	7.1	10.7	14.2	17.8	21.3
	Number of battery modules		2	3	4	5	6
	Nominal voltage	V	192	288	384	480	576
	Voltage range	V	168-216	252-324	336-432	420-540	504-648
	Interface to inverter		RS485				
	Height		700	900	1100	1300	1500
	Width/depth	mm	504/380				
	Weight	kg	105	146	187	228	269
	Ambient temperature	°C	0...50				
	IP protection class		IP54				
	Certification / Safety Standard		IEC 62040-1, IEC 62619, IEC 63056, UL 1973, CE, EN 61000-6-1, EN 61000-6-2, EN 61000-6-3, EN 61000-6-4				

1) According to the battery manufacturer
2) Due to §14a (controllable consumers), please note that in Germany certain inverter/battery combinations must be externally controllable by the energy supplier so that the maximum possible battery charging capacity from the grid does not exceed 4.2 kWh. Further information on this can be found in the inverter operating instructions under 'External battery control via digital inputs'

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



	Dyness Tower Pro		TP7	TP11	TP15	TP19	TP23
System data	Module type		LiFePO4 3.84 kWh, 96 V, 40 Ah, 34.5 kg				
	Max. Charging/discharging current battery system	A	40/40				
	Max. Charging/discharging current battery input inverter	A	26/26				
	Max. Power consumption with PLENTICORE BI 5.5/26	kW	5.0[2)]	5.5[2)]	5.5[2)]	5.5[2)]	5.5[2)]
	Max. Power consumption with PLENTICORE BI 10/26	kW	5.0[2)]	7.5[2)]	10.0[2)]	10.0[2)]	10.0[2)]
	Usable capacity 95% DoD[1)]	kWh	7.3	10.9	14.6	18.2	21.9
	Usable capacity 100% DoD[1)]	kWh	7.7	11.5	15.4	19.2	23.0
	Number of battery modules		2	3	4	5	6
	Nominal voltage	V	192	288	384	480	576
	Voltage range	V	168-216	252-324	336-432	420-540	504-648
	Interface to inverter		RS485				
	Height		788	1009	1230	1451	1672
	Width/depth	mm	587/310				
	Weight	kg	99.5	135	170.5	206	241,5
	Ambient temperature	°C	-20...55				
	IP protection class		IP55				
	Certification / Safety Standard		UN38.3, VDE2510-50, IEC62619, IEC63056, IEC62477, IEC62040, CE, EMC, ROHS				

1) According to the battery manufacturer
2) Due to §14a (controllable consumers), please note that in Germany certain inverter/battery combinations must be externally controllable by the energy supplier so that the maximum possible battery charging capacity from the grid does not exceed 4.2 kWh. Further information on this can be found in the inverter operating instructions under 'External battery control via digital inputs'

PLENTICORE BI 5.5/26-10/26 with Dyness Stack100



	Dyness Stack100		s3	s4	s5	s6	s7	s8	s9	s10	s11
System data	Module type		LiFePO4 5.12 kWh, 57.6 V, 100 Ah, 47 kg								
	Max. Charging/discharging current battery system	A	100/100								
	Max. Charging/discharging current battery input inverter	A	26/26								
	Max. Power consumption with PLENTICORE BI 5.5/26	kW	4.0	5.3[2)]	5.5[2)]	5.5[2)]	5.5[2)]	5.5[2)]	5.5[2)]	5.5[2)]	5.5[2)]
	Max. Power consumption with PLENTICORE BI 10/26	kW	4.0	5.3[2)]	6.7[2)]	8.0[2)]	9.3[2)]	10.0[2)]	10.0[2)]	10.0[2)]	10.0[2)]
	Usable capacity 95% DoD[1)]	kWh	14.6	19.5	24.3	29.2	34.0	39.0	43.8	48.6	53.5
	Usable capacity 100% DoD[1)]	kWh	15.4	20.5	25.6	30.7	35.8	41.0	46.1	51.2	56.3
	Number of battery modules		3	4	5	6	7	8	9	10	11
	Nominal voltage	V	153.6	204.9	256.0	307.2	358.4	409.6	460.8	512.0	563.2
	Voltage range	V	134-175	179-233	224-292	268-350	313-408	358-467	403-525	448-584	492-642
	Interface to inverter		RS485								
	Height		634	768	901	1035	1168	1302	1435	1569	1702
	Width/depth	mm	591/390								
	Weight	kg	141	188	235	282	329	376	423	470	517
	Ambient temperature	°C	0...55								
	IP protection class		IP20								
	Certification / Safety Standard		CE/EMC/RED/62619/63056/62477/62040 /UN38.3								

1) According to the battery manufacturer
2) Due to §14a (controllable consumers), please note that in Germany certain inverter/battery combinations must be externally controllable by the energy supplier so that the maximum possible battery charging capacity from the grid does not exceed 4.2 kWh. Further information on this can be found in the inverter operating instructions under 'External battery control via digital inputs'

PLENTICORE BI 5.5/26-10/26 with KOSTAL HELIVOR HV



	KOSTAL HELIVOR HV		9.6	12.8	16	19.2	22.4	25.6
System data	Module type		Li-Ion LFP 3.2 kWh, 64 V, 50 Ah, 36.4 kg					
	Max. Charging/discharging current battery system	A	50/50					
	Max. Charging/discharging current battery input inverter	A	13/13					
	Max. Power consumption with PLENTICORE BI 5.5/26	kW	5.0[2)]	5.5[2)]	5.5[2)]	5.5[2)]	5.5[2)]	5.5[2)]
	Max. Power consumption with PLENTICORE BI 10/26	kW	5.0[2)]	6.7[2)]	8.3[2)]	10.0[2)]	10.0[2)]	10.0[2)]
	Usable capacity 95% DoD[1)]	kWh	9.1	12.2	15.2	18.2	21.3	24.3
	Usable capacity 100% DoD[1)]	kWh	9.6	12.8	16.0	19.2	22.4	25.6
	Number of battery modules		3	4	5	6	7	8
	Nominal voltage	V	192	256	320	384	448	512
	Voltage range	V	180-219	240-292	300-365	360-438	420-511	480-584
	Interface to inverter		RS485					
	Height	mm	860	1050	1240	1430	1620	1810
	Width/depth	mm	610/240					
	Weight	kg	129	166	202	238	275	311
	Ambient temperature	°C	-10...55					
	IP protection class		IP 65					
	Certification / Safety Standard		CE / IEC 62619 / UN 38.3 / VDE-AR-E 2510-50					

1) According to the battery manufacturer
2) Due to §14a (controllable consumers), please note that in Germany certain inverter/battery combinations must be externally controllable by the energy supplier so that the maximum possible battery charging capacity from the grid does not exceed 4.2 kWh. Further information on this can be found in the inverter operating instructions under 'External battery control via digital inputs'

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[3], BPU 16.5 kg[3]		
	Max. Charging/discharging current battery system	A	22/22		
	Max. Charging/discharging current battery input inverter	A	26/26		
	Max. Power consumption with PLENTICORE BI 5.5/26	kW	5.5[2]	5.5[2]	5.5[2]
	Max. Power consumption with PLENTICORE BI 10/26	kW	5.8[2]	8.8[2]	10[2]
	Usable capacity 95% DoD[1]	kWh	8.2	12.3	16.3
	Usable capacity 100% DoD[1]	kWh	8.6	12.9	17.2
	Number of battery modules		2	3	4
	Nominal voltage	V	195	295	386
	Voltage range	V	192-265.6	288-398.4	384-531.2
	Interface to inverter		RS485		
	Height		665.2/665.2		
	Width/depth	mm	445.2	593.6	742
	Weight	kg	114.3	163.2	212.1
	Ambient temperature	°C	-10...50		
	IP protection class		IP 55		
	Certification / Safety Standard		CE, RCM, UL1973, IEC62619, IEC62477-1 FCC, IEC61000-6-1, IEC61000-6-2, IEC61000-6-3		

1) According to the battery manufacturer
2) Due to §14a (controllable consumers), please note that in Germany certain inverter/battery combinations must be externally controllable by the energy supplier so that the maximum possible battery charging capacity from the grid does not exceed 4.2 kWh. Further information on this can be found in the inverter operating instructions under 'External battery control via digital inputs'
3) The weight of the bracket and design cover is not included.

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



	PYLONTECH Force		H1-V2 10.65[3]	H1-V2 14.20[3]	H1-V2 17.76[3]	H1-V2 21.31[3]	H1-V2 24.86[3]
System data	Module type		Li-Ion LFP 3.552 kWh, 48 V, 74 Ah, 36 kg				
	Max. Charging/discharging current battery system	A	40/40				
	Max. Charging/discharging current battery input inverter	A	26/26				
	Max. Power consumption with PLENTICORE BI 5.5/26	kW	3.7	5.0[2]	5.5[2]	5.5[2]	5.5[2]
	Max. Power consumption with PLENTICORE BI 10/26	kW	3.7	5.0[2]	6.2[2]	7.5[2]	8.7[2]
	Usable capacity 95% DoD[1]	kWh	10.1	13.5	16.9	20.2	23.6
	Usable capacity 100% DoD[1]	kWh	10.7	14.2	17.8	21.3	24.9
	Number of battery modules		3	4	5	6	7
	Nominal voltage	V	144	192	240	288	336
	Voltage range	V	130.5-162	174-216	217.5-270	261-324	304.5-378
	Interface to inverter		RS485				
	Height		700	870	1040	1210	1380
	Width/depth	mm	600/380				
	Weight	kg	122	158	194	230	266
	Ambient temperature	°C	0...50				
	IP protection class		IP 55				
	Certification / Safety Standard		VDE2510-50, IEC62619, IEC62477, IEC62040, UN38.3, CE, EN 61000-6-2, EN 61000-6-3				

1) According to the battery manufacturer
2) Due to §14a (controllable consumers), please note that in Germany certain inverter/battery combinations must be externally controllable by the energy supplier so that the maximum possible battery charging capacity from the grid does not exceed 4.2 kWh. Further information on this can be found in the inverter operating instructions under 'External battery control via digital inputs'
3) Pylontech Force-H1-V2 battery compatible with BMS modul: FC0500-40S-V2 with article number 11FC0500ZZA-00013

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



	PYLONTECH Force		H2-V2 7.10[3]	H2-V2 10.65[3]	H2-V2 14.21[3]	H2-V2 17.75[3]
System data	Module type		Li-Ion LFP 3.552kWh, 96V, 37Ah, 35kg			
	Max. Charging/discharging current battery system	A	40/40			
	Max. Charging/discharging current battery input inverter	A	26/26			
	Max. Power consumption with PLENTICORE BI 5.5/26	kW	5.0[2]	5.5[2]	5.5[2]	5.5[2]
	Max. Power consumption with PLENTICORE BI 10/26	kW	5.0[2]	7.5[2]	10.0[2]	10.0[2]
	Usable capacity 95% DoD[1]	kWh	6.7	10.1	13.5	16.9
	Usable capacity 100% DoD[1]	kWh	7.1	10.7	14.2	17.8
	Number of battery modules		2	3	4	5
	Nominal voltage	V	192	288	384	480
	Voltage range	V	174-216	261-324	348-432	437-542
	Interface to inverter		RS485			
	Height		822	1118	1414	1710
	Width/depth	mm	450/296			
	Weight	kg	82	117	152	188
	Ambient temperature	°C	0...50			
	IP protection class		IP 55			
	Certification / Safety Standard		VDE2510-50, IEC62619, IEC62477, IEC62040, UN38.3, CE, EN 61000-6-2, EN 61000-6-3			

1) According to the battery manufacturer
2) Due to §14a (controllable consumers), please note that in Germany certain inverter/battery combinations must be externally controllable by the energy supplier so that the maximum possible battery charging capacity from the grid does not exceed 4.2 kWh. Further information on this can be found in the inverter operating instructions under 'External battery control via digital inputs'
3) Pylontech Force-H2-V2 battery compatible with BMS modul: FC0500M-40S-V2 with article number 11FC0500MZA-00013

PLENTICORE BI 5.5/26-10/26 G3 with PYLONTECH Force-H3



	PYLONTECH Force		H3 10.24	H3 15.36	H3 20.48	H3 25.6
System data	Module type		Li-Ion LFP 5.12 kWh, 102.4 V, 50 Ah, 39 kg			
	Max. Charging/discharging current battery system	A	50/50			
	Max. Charging/discharging current battery input inverter	A	26/26			
	Max. Power consumption with PLENTICORE BI 5.5/26	kW	5.3[2)]	5.5[2)]	5.5[2)]	5.5[2)]
	Max. Power consumption with PLENTICORE BI 10/26	kW	5.3[2)]	8.0[2)]	10.0[2)]	10.0[2)]
	Usable capacity 95% DoD[1)]	kWh	9.7	14.6	19.5	24.3
	Usable capacity 100% DoD[1)]	kWh	10.2	15.4	20.5	25.6
	Number of battery modules		2	3	4	5
	Nominal voltage	V	204.8	307.2	409.6	512
	Voltage range	V	185.6-230.4	278.4-345.6	371.2-460.8	464-576
	Interface to inverter		RS485			
	Height		530	700	870	1040
	Width/depth	mm	540/350			
	Weight	kg	92	131	170	209
	Ambient temperature	°C	0...50			
	IP protection class		IP 55			
	Certification / Safety Standard		UL1973, EC62619, IEC63056, VDE-AR-E 2510-50, UL9540A, UN38.3, CE RED, CE LVD, EN 61000-6-2, EN 61000-6-3			

1) According to the battery manufacturer
2) Due to §14a (controllable consumers), please note that in Germany certain inverter/battery combinations must be externally controllable by the energy supplier so that the maximum possible battery charging capacity from the grid does not exceed 4.2 kWh. Further information on this can be found in the inverter operating instructions under 'External battery control via digital inputs'

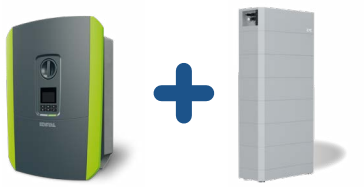
PLENTICORE BI 5.5/26-10/26 with VARTA.wall



	VARTA.wall		10	15	20
System data	Module type		Rundzelle (21700) / Lithium-Ionen (NCA) 5.00 kWh, 100.8 V, 65 Ah, 37 kg		
	Max. Charging/discharging current battery system	A	22/26		
	Max. Charging/discharging current battery input inverter	A	26/26		
	Max. Power consumption with PLENTICORE BI 5.5/26	kW	5.2[2)]	5.5[2)]	5.5[2)]
	Max. Power consumption with PLENTICORE BI 10/26	kW	5.2[2)]	7.9[2)]	10.0[2)]
	Usable capacity 95% DoD[1)]	kWh	9.5	14.3	19.0
	Usable capacity 100% DoD[1)]	kWh	10.0	15.0	20.0
	Number of battery modules		2	3	4
	Nominal voltage	V	201.6	302.4	403.2
	Voltage range	V	168 - 226.8	252 - 340.2	336 - 453.6
	Interface to inverter		RS485		
	Height		1306	1752	2197
	Width/depth	mm	605 / 135		
	Weight	kg	88	124	161
	Ambient temperature	°C	-10...50		
	IP protection class		IP 55		
	Certification / Safety Standard		CE, UN 38.3, IEC 62619:2017, VDE-AR-E 2510-50:2017-05, IEC 61000-6-2, IEC 61000-6-3		

1) According to the battery manufacturer
2) Due to §14a (controllable consumers), please note that in Germany certain inverter/battery combinations must be externally controllable by the energy supplier so that the maximum possible battery charging capacity from the grid does not exceed 4.2 kWh. Further information on this can be found in the inverter operating instructions under 'External battery control via digital inputs'

PLENTICORE BI 5.5/26-10/26 with ZYC SIMPO HV



	ZYC SIMPO HV		9,6	12,8	16	19,2	22,4	25,6
System data	Module type		Li-Ion LFP 3.2 kWh, 64 V, 50 Ah, 36,4 kg					
	Max. Charging/discharging current battery system	A	30/30					
	Max. Charging/discharging current battery input inverter	A	26/26					
	Max. Power consumption with PLENTICORE BI 5.5/26	kW	5.0[2)]	5.5[2)]	5.5[2)]	5.5[2)]	5.5[2)]	5.5[2)]
	Max. Power consumption with PLENTICORE BI 10/26	kW	5.0[2)]	6.7[2)]	8.3[2)]	10.0[2)]	10.0[2)]	10.0[2)]
	Usable capacity 95% DoD[1)]	kWh	9.1	12.2	15.2	18.2	21.3	24.3
	Usable capacity 100% DoD[1)]	kWh	9.6	12.8	16.0	19.2	22.4	25.6
	Number of battery modules		3	4	5	6	7	8
	Nominal voltage	V	192	256	320	384	448	512
	Voltage range	V	180-219	240-292	300-365	360-438	420-511	480-584
	Interface to inverter		RS485					
	Height		860	1050	1240	1430	1620	1810
	Width/depth	mm	610/240					
	Weight	kg	128,9	165,3	201,7	238,1	274,5	310,9
	Ambient temperature	°C	-10...50					
	IP protection class		IP 65					
	Certification / Safety Standard		CEC, CE, UN 38.3, IEC 62619, VDE-AR-E 2510-50, IEC 61000-6-2, IEC 61000-6-3					

1) According to the battery manufacturer
2) Due to §14a (controllable consumers), please note that in Germany certain inverter/battery combinations must be externally controllable by the energy supplier so that the maximum possible battery charging capacity from the grid does not exceed 4.2 kWh. Further information on this can be found in the inverter operating instructions under 'External battery control via digital inputs'

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