

PLENTICORE plus

with battery



Technical Specification

PLENTICORE plus



PLENTICORE plus power class			3.0	4.2	5.5	7.0	8.5	10
Input side (DC)	Max. PV power (cos φ = 1)	kWp	4.5	6.3	8.25	10.5	12.75	15
	Nominal DC power	kW	3.09	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...650					
	Max. charging current/discharging current at battery input	A	13/13					
Output side (AC)	Rated power, cos φ = 1 (P _{AC,r})	kW	3.0	4.2	5.5	7.0	8.5	10
	Output voltage (U _{ACmin} - U _{ACmax})	V	320...500					
	Rated output current (I _{AC,r})	A	4.33	6.06	7.94	10.10	12.27	14.43
	Max. output current (I _{ACmax})	A	4.81	6.74	8.82	11.23	13.63	16.04
	Grid connection		3N~, 230/400 V, 50 Hz					
	Standby	W	7.9					
η	Max. efficiency	%	97.1	97.1	97.1	97.2	97.2	97.2
	European efficiency	%	95.3	96.5	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 plug					
Directives/Certification ¹⁾			CE, GS, CEI 0-21, CEI10/11, EN 62109-1, EN 62109-2, EN 60529, EN 50438*, EN 50549-1*, NA/EEA, G98, G99, IFS2018, IEC 61727, IEC 62116, RD 1699, RFG, TF3.3.1, TOR Erzeuger, UNE 206006 IN, UNE 206007-1 IN, UTE C15-712-1, VDE 0126-1-1, VDE-AR-N 4105, VJV2018					

PLENTICORE plus with AXITEC AXIstorage Li SH



AXITEC AXIstorage Li SH		3 Modules	4 Modules	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	13/13			
	Max. Power consumption with PLENTICORE plus 3.0	kW	2.0	2.7	3.0	3.0
	Max. Power consumption with PLENTICORE plus 4.2	kW	2.0	2.7	3.4	4.0
	Max. Power consumption with PLENTICORE plus 5.5	kW	2.0	2.7	3.4	4.0
	Max. Power consumption with PLENTICORE plus 7.0	kW	2.0	2.7	3.4	4.0
	Max. Power consumption with PLENTICORE plus 8.5	kW	2.0	2.7	3.4	4.0
	Max. Power consumption with PLENTICORE plus 10	kW	2.0	2.7	3.4	4.0
	Usable capacity 95% DoD ¹⁾	kWh	7.1	9.5	11.9	14.3
	Usable capacity 100% DoD ¹⁾	kWh	7.5	10	12.5	15
	Number of battery modules		3	4	5	6
	Nominal voltage	V	155	207	258	310
	Voltage range	V	134...170	179...227	224...284	268...340
	Interface to inverter		RS485			
	Height	mm	870			
	Width/depth	mm	751/423			
	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			

1) According to the battery manufacturer

PLENTICORE plus 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	13/13				
	Max. Power consumption with PLENTICORE plus 3.0	kW	1.9	2.5	3.0	3.0	3.0
	Max. Power consumption with PLENTICORE plus 4.2	kW	1.9	2.5	3.1	3.7	4.2
	Max. Power consumption with PLENTICORE plus 5.5	kW	1.9	2.5	3.1	3.7	4.4 ²⁾
	Max. Power consumption with PLENTICORE plus 7.0	kW	1.9	2.5	3.1	3.7	4.4 ²⁾
	Max. Power consumption with PLENTICORE plus 8.5	kW	1.9	2.5	3.1	3.7	4.4 ²⁾
	Max. Power consumption with PLENTICORE plus 10	kW	1.9	2.5	3.1	3.7	4.4 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	mm	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 plus 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	13/13			
	Max. Power consumption with PLENTICORE plus 3.0	kW	2.5	3.0	3.0	3.0
	Max. Power consumption with PLENTICORE plus 4.2	kW	2.5	3.7	4.2	4.2
	Max. Power consumption with PLENTICORE plus 5.5	kW	2.5	3.7	5.0 ²⁾	5.5 ²⁾
	Max. Power consumption with PLENTICORE plus 7.0	kW	2.5	3.7	5.0 ²⁾	6.2 ²⁾
	Max. Power consumption with PLENTICORE plus 8.5	kW	2.5	3.7	5.0 ²⁾	6.2 ²⁾
	Max. Power consumption with PLENTICORE plus 10	kW	2.5	3.7	5.0 ²⁾	6.2 ²⁾
	Usable capacity 95% DoD ¹⁾	kWh	10.1	13.5	16.9	23.6
	Usable capacity 100% DoD ¹⁾	kWh	10.7	14.2	17.8	24.9
	Number of battery modules		3	4	5	7
	Nominal voltage	V	144	192	240	336
	Voltage range	V	130.5-162	174-216	217.5-270	304.5-378
	Interface to inverter		RS485			
	Height	mm	700	870	1040	1380
	Width/depth	mm	600/380			
	Weight	kg	122	158	194	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 SV2 battery compatible with BMS module: Li SV2 BMS with article number: AY10786

PLENTICORE plus with BMZ HYPERION



BMZ HYPERION		3 Modules	4 Modules	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	13/13			
	Max. Power consumption with PLENTICORE plus 3.0	kW	2.0	2.7	3.0	3.0
	Max. Power consumption with PLENTICORE plus 4.2	kW	2.0	2.7	3.4	4.0
	Max. Power consumption with PLENTICORE plus 5.5	kW	2.0	2.7	3.4	4.0
	Max. Power consumption with PLENTICORE plus 7.0	kW	2.0	2.7	3.4	4.0
	Max. Power consumption with PLENTICORE plus 8.5	kW	2.0	2.7	3.4	4.0
	Max. Power consumption with PLENTICORE plus 10	kW	2.0	2.7	3.4	4.0
	Usable capacity 95% DoD ¹⁾	kWh	7.1	9.5	11.9	14.3
	Usable capacity 100% DoD ¹⁾	kWh	7.5	10	12.5	15
	Number of battery modules		3	4	5	6
	Nominal voltage		155	207	258	310
	Voltage range	mm	134...170	179...227	224...284	268...340
	Interface to inverter	mm	RS485			
	Height	kg	870			
	Width/depth	°C	751/423			
	Weight		107	129	151	173
	Ambient temperature		0...45			
	IP protection class		IP 21			
	Certification / Safety Standard		CE, UN 38.3, IEC 62619			

1) According to the battery manufacturer

PLENTICORE plus with BYD Battery-Box HV



BYD Battery-Box HV		H 6.4	H 7.7	H 9.0	H 10.2	H 11.5
System data	Module type	HV (High Voltage) 51.2 V, 25 Ah, 1.28 kWh, 25 kg, LiFePO ₄				
	Max. Charging/discharging current battery system	A				
	Max. Charging/discharging current battery input inverter	A				
	Max. Power consumption with PLENTICORE plus 3.0	kW	3.0	3.0	3.0	3.0
	Max. Power consumption with PLENTICORE plus 4.2	kW	3.3	4.0	4.2	4.2
	Max. Power consumption with PLENTICORE plus 5.5	kW	3.3	4.0	4.7 ²⁾	5.3 ²⁾
	Max. Power consumption with PLENTICORE plus 7.0	kW	3.3	4.0	4.7 ²⁾	5.3 ²⁾
	Max. Power consumption with PLENTICORE plus 8.5	kW	3.3	4.0	4.7 ²⁾	5.3 ²⁾
	Max. Power consumption with PLENTICORE plus 10	kW	3.3	4.0	4.7 ²⁾	5.3 ²⁾
	Usable capacity 95% DoD ¹⁾	kWh	6.1	7.3	8.6	9.7
	Usable capacity 100% DoD ¹⁾	kWh	6.4	7.7	9.0	10.2
	Number of battery modules		5	6	7	8
	Nominal voltage	V	256	307	358	409
	Voltage range	V	200-282	240-338	280-395	320-451
	Interface to inverter		RS485			
	Height	mm	894	1014	1134	1254
	Width/depth	mm	580/380			
	Weight	kg	148	174	200	226
	Ambient temperature	°C	-10...50			
	IP protection class		IP 55			
	Certification / Safety Standard		CE, UL1642, TÜV (IEC62619), RCM, 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 plus 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 ⁴⁾	HVM 13.8 ⁴⁾	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	13/13								
	Max. Power consumption with PLENTICORE plus 3.0 ³⁾	kW	--	--	--	--	--	--	--	--	
	Max. Power consumption with PLENTICORE plus 4.2	kW	2.7	4.0	4.2	4.2	2.7	3.3	4.0	4.2	4.2
	Max. Power consumption with PLENTICORE plus 5.5	kW	2.7	4.0	5.3 ²⁾	5.5 ²⁾	2.7	3.3	4.0	4.7 ²⁾	5.3 ²⁾
	Max. Power consumption with PLENTICORE plus 7.0	kW	2.7	4.0	5.3 ²⁾	6.7 ²⁾	2.7	3.3	4.0	4.7 ²⁾	5.3 ²⁾
	Max. Power consumption with PLENTICORE plus 8.5	kW	2.7	4.0	5.3 ²⁾	6.7 ²⁾	2.7	3.3	4.0	4.7 ²⁾	5.3 ²⁾
	Max. Power consumption with PLENTICORE plus 10	kW	2.7	4.0	5.3 ²⁾	6.7 ²⁾	2.7	3.3	4.0	4.7 ²⁾	5.3 ²⁾
	Usable capacity 95% DoD ¹⁾	kWh	4.9	7.3	9.7	12.2	10.5	13.1	15.7	18.4	21.0
	Usable capacity 100% DoD ¹⁾	kWh	5.1	7.7	10.2	12.8	11.0	13.8	16.6	19.3	22.1
	Number of battery modules		2	3	4	5	4	5	6	7	8
	Nominal voltage	V	204	307	409	512	204	256	307	358	409
	Voltage range	V	160-240	240-360	320-480	400-600	160-240	200-300	240-360	280-420	320-480
	Interface to inverter		RS485								
	Height	mm	712	945	1178	1411	1178	1411	1644	1877	2110
	Width/depth	mm	585/298								
	Weight	kg	91	129	167	205	167	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'

3) The use of the BYD Battery-Box Premium HVM 13.8, 16.6, 19.3 and 22.1 are not approved for the PLENTICORE plus 3.0

4) Using the BYD Battery-Box Premium HVM 11.0 or 13.8 is technically possible. Due to the relatively low battery voltage of these variants, a restriction of the charging and final charging power (UBat x 13A max. Input current of the WR) and the system efficiency must be pointed out.

PLENTICORE plus 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	13/13					
	Max. Power consumption with PLENTICORE plus 3.0	kW	2.0	2.7	3.0	3.0	3.0	3.0
	Max. Power consumption with PLENTICORE plus 4.2	kW	2.0	2.7	3.3	4.0	4.2	4.2
	Max. Power consumption with PLENTICORE plus 5.5	kW	2.0	2.7	3.3	4.0	4.7 ²⁾	5.3 ²⁾
	Max. Power consumption with PLENTICORE plus 7.0	kW	2.0	2.7	3.3	4.0	4.7 ²⁾	5.3 ²⁾
	Max. Power consumption with PLENTICORE plus 8.5	kW	2.0	2.7	3.3	4.0	4.7 ²⁾	5.3 ²⁾
	Max. Power consumption with PLENTICORE plus 10	kW	2.0	2.7	3.3	4.0	4.7 ²⁾	5.3 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 plus 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	13/13			
	Max. Power consumption with PLENTICORE plus 3.0	kW	2.7	3.0	3.0	3.0
	Max. Power consumption with PLENTICORE plus 4.2	kW	2.7	4.0	4.2	4.2
	Max. Power consumption with PLENTICORE plus 5.5	kW	2.7	4.0	5.3 ²⁾	5.5 ²⁾
	Max. Power consumption with PLENTICORE plus 7.0	kW	2.7	4.0	5.3 ²⁾	6.5 ²⁾
	Max. Power consumption with PLENTICORE plus 8.5	kW	2.7	4.0	5.3 ²⁾	6.5 ²⁾
	Max. Power consumption with PLENTICORE plus 10	kW	2.7	4.0	5.3 ²⁾	6.5 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 plus 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	LiFePO ₄ 2.97 kWh, 51.2 V, 29 kg							
	Max. Charging/discharging current battery system	A							
	Max. Charging/discharging current battery input inverter	A							
	Max. Power consumption with PLENTICORE plus 3.0	kW	2.0	2.7	3.0	3.0	3.0	3.0	3.0
	Max. Power consumption with PLENTICORE plus 4.2	kW	2.0	2.7	3.3	4.0	4.2	4.2	4.2
	Max. Power consumption with PLENTICORE plus 5.5	kW	2.0	2.7	3.3	4.0	4.7 ²⁾	5.3 ²⁾	5.5 ²⁾
	Max. Power consumption with PLENTICORE plus 7.0	kW	2.0	2.7	3.3	4.0	4.7 ²⁾	5.3 ²⁾	6.0
	Max. Power consumption with PLENTICORE plus 8.5	kW	2.0	2.7	3.3	4.0	4.7 ²⁾	5.3 ²⁾	6.0 ²⁾
	Max. Power consumption with PLENTICORE plus 10	kW	2.0	2.7	3.3	4.0	4.7 ²⁾	5.3 ²⁾	6.0 ²⁾
	Usable capacity 95% DoD ¹⁾	kWh	8.5	11.3	14.1	16.9	19.8	22.6	25.4
	Usable capacity 100% DoD ¹⁾	kWh	8.9	11.9	14.9	17.8	20.8	23.8	26.7
	Number of battery modules		3	4	5	6	7	8	9
	Nominal voltage	V	153.6	204.8	256.0	307.2	358.4	409.6	460.8
	Voltage range	V	120-172.8	1600-230.4	200-288	240-345.6	280-403.2	320-460.8	360-518.4
	Interface to inverter		RS485						
	Height	mm	585	691	797	903	1009	1115	1221
	Width/depth	mm	610/282						
	Weight	kg	96	123.3	150.6	177.9	205.2	232.5	259.8
	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 plus 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	13/13				
	Max. Power consumption with PLENTICORE plus 3.0	kW	2.5	3.0	3.0	3.0	3.0
	Max. Power consumption with PLENTICORE plus 4.2	kW	2.5	3.7	4.2	4.2	4.2
	Max. Power consumption with PLENTICORE plus 5.5	kW	2.5	3.7	5.0 ²⁾	5.5 ²⁾	5.5 ²⁾
	Max. Power consumption with PLENTICORE plus 7.0	kW	2.5	3.7	5.0 ²⁾	6.2 ²⁾	6.5 ²⁾
	Max. Power consumption with PLENTICORE plus 8.5	kW	2.5	3.7	5.0 ²⁾	6.2 ²⁾	6.5 ²⁾
	Max. Power consumption with PLENTICORE plus 10	kW	2.5	3.7	5.0 ²⁾	6.2 ²⁾	6.5 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	mm	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, UL1973, 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 plus 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	13/13				
	Max. Power consumption with PLENTICORE plus 3.0	kW	2.5	3.0	3.0	3.0	3.0
	Max. Power consumption with PLENTICORE plus 4.2	kW	2.5	3.7	4.2	4.2	4.2
	Max. Power consumption with PLENTICORE plus 5.5	kW	2.5	3.7	5.0 ²⁾	5.5 ²⁾	5.5 ²⁾
	Max. Power consumption with PLENTICORE plus 7.0	kW	2.5	3.7	5.0 ²⁾	6.2 ²⁾	6.5 ²⁾
	Max. Power consumption with PLENTICORE plus 8.5	kW	2.5	3.7	5.0 ²⁾	6.2 ²⁾	6.5 ²⁾
	Max. Power consumption with PLENTICORE plus 10	kW	2.5	3.7	5.0 ²⁾	6.2 ²⁾	6.5 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	mm	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 plus 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 13/13								
	Max. Power consumption with PLENTICORE plus 3.0	kW	2.0	2.7	3.0	3.0	3.0	3.0	3.0	3.0
	Max. Power consumption with PLENTICORE plus 4.2	kW	2.0	2.7	3.3	4.0	4.2	4.2	4.2	4.2
	Max. Power consumption with PLENTICORE plus 5.5	kW	2.0	2.7	3.3	4.0	4.7 ²⁾	5.3 ²⁾	5.5 ²⁾	5.5 ²⁾
	Max. Power consumption with PLENTICORE plus 7.0	kW	2.0	2.7	3.3	4.0	4.7 ²⁾	5.3 ²⁾	6.0 ²⁾	6.5 ²⁾
	Max. Power consumption with PLENTICORE plus 8.5	kW	2.0	2.7	3.3	4.0	4.7 ²⁾	5.3 ²⁾	6.0 ²⁾	6.5 ²⁾
	Max. Power consumption with PLENTICORE plus 10	kW	2.0	2.7	3.3	4.0	4.7 ²⁾	5.3 ²⁾	6.0 ²⁾	6.5 ²⁾
	Usable capacity 95% DoD ¹⁾	kWh	14.6	19.5	24.3	29.2	34.0	39.0	43.8	53.5
	Usable capacity 100% DoD ¹⁾	kWh	15.4	20.5	25.6	30.7	35.8	41.0	46.1	56.3
	Number of battery modules		3	4	5	6	7	8	9	10
	Nominal voltage	V	153.6	204.9	256.0	307.2	358.4	409.6	460.8	512.0
	Voltage range	V	134-175	179-233	224-292	268-350	313-408	358-467	403-525	448-584
	Interface to inverter		RS485							
	Height	mm	634	768	901	1035	1168	1302	1435	1569
	Width/depth	mm	591/390							
	Weight	kg	141	188	235	282	329	376	423	470
	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 plus 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		
	Max. Charging/discharging current battery input inverter	A		
	Max. Power consumption with PLENTICORE plus 3.0	kW	2.5	3.0
	Max. Power consumption with PLENTICORE plus 4.2	kW	2.5	3.8
	Max. Power consumption with PLENTICORE plus 5.5	kW	2.5	3.8
	Max. Power consumption with PLENTICORE plus 7.0	kW	2.5	3.8
	Max. Power consumption with PLENTICORE plus 8.5	kW	2.5	3.8
	Max. Power consumption with PLENTICORE plus 10	kW	2.5	3.8
	Usable capacity 95% DoD ¹⁾	kWh	8.2	12.3
	Usable capacity 100% DoD ¹⁾	kWh	8.6	12.9
	Number of battery modules		2	3
	Nominal voltage	V	195	295
	Voltage range	V	192-265.6	288-398.4
	Interface to inverter		RS485	
	Height	mm	665.2	
	Width/depth	mm	665.2/445.2	665.2/593.6
	Weight	kg	114.3	163.2
	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 plus 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	13/13				
	Max. Power consumption with PLENTICORE plus 3.0	kW	1.9	2.5	3.0	3.0	3.0
	Max. Power consumption with PLENTICORE plus 4.2	kW	1.9	2.5	3.1	3.7	4.2
	Max. Power consumption with PLENTICORE plus 5.5	kW	1.9	2.5	3.1	3.7	4.4 ²⁾
	Max. Power consumption with PLENTICORE plus 7.0	kW	1.9	2.5	3.1	3.7	4.4 ²⁾
	Max. Power consumption with PLENTICORE plus 8.5	kW	1.9	2.5	3.1	3.7	4.4 ²⁾
	Max. Power consumption with PLENTICORE plus 10	kW	1.9	2.5	3.1	3.7	4.4 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	mm	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 plus 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	13/13			
	Max. Power consumption with PLENTICORE plus 3.0	kW	2.5	3.0	3.0	3.0
	Max. Power consumption with PLENTICORE plus 4.2	kW	2.5	3.7	4.2	4.2
	Max. Power consumption with PLENTICORE plus 5.5	kW	2.5	3.7	5.0 ²⁾	5.5 ²⁾
	Max. Power consumption with PLENTICORE plus 7.0	kW	2.5	3.7	5.0 ²⁾	6.2 ²⁾
	Max. Power consumption with PLENTICORE plus 8.5	kW	2.5	3.7	5.0 ²⁾	6.2 ²⁾
	Max. Power consumption with PLENTICORE plus 10	kW	2.5	3.7	5.0 ²⁾	6.2 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	mm	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 plus 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	13/13			
	Max. Power consumption with PLENTICORE plus 3.0	kW	2.7	3.0	3.0	3.0
	Max. Power consumption with PLENTICORE plus 4.2	kW	2.7	4.0	4.2	4.2
	Max. Power consumption with PLENTICORE plus 5.5	kW	2.7	4.0	5.3 ²⁾	5.5 ²⁾
	Max. Power consumption with PLENTICORE plus 7.0	kW	2.7	4.0	5.3 ²⁾	6.5 ²⁾
	Max. Power consumption with PLENTICORE plus 8.5	kW	2.7	4.0	5.3 ²⁾	6.5 ²⁾
	Max. Power consumption with PLENTICORE plus 10	kW	2.7	4.0	5.3 ²⁾	6.5 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	mm	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 plus 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	22/26		
	Max. Charging/discharging current battery input inverter	13/13		
	Max. Power consumption with PLENTICORE plus 3.0	2.6	3.0	3.0
	Max. Power consumption with PLENTICORE plus 4.2	2.6	3.9	4.2
	Max. Power consumption with PLENTICORE plus 5.5	2.6	3.9	5.2 ²⁾
	Max. Power consumption with PLENTICORE plus 7.0	2.6	3.9	5.2 ²⁾
	Max. Power consumption with PLENTICORE plus 8.5	2.6	3.9	5.2 ²⁾
	Max. Power consumption with PLENTICORE plus 10	2.6	3.9	5.2 ²⁾
	Usable capacity 95% DoD ¹⁾	9.5	14.3	19.0
	Usable capacity 100% DoD ¹⁾	10.0	15.0	20.0
	Number of battery modules	2	3	4
	Nominal voltage	201.6	302.4	403.2
	Voltage range	168 - 226.8	252 - 340.2	336 - 453.6
	Interface to inverter	RS485		
	Height	1306	1752	2197
	Width/depth	605 / 135		
	Weight	88	124	161
	Ambient temperature	-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 plus 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 13/13					
	Max. Power consumption with PLENTICORE plus 3.0	kW	2.5	3.0	3.0	3.0	3.0
	Max. Power consumption with PLENTICORE plus 4.2	kW	2.5	3.3	4.2	4.2	4.2
	Max. Power consumption with PLENTICORE plus 5.5	kW	2.5	3.3	4.2	5.0 ²⁾	5.5 ²⁾
	Max. Power consumption with PLENTICORE plus 7.0	kW	2.5	3.3	4.2	5.0 ²⁾	5.8 ²⁾
	Max. Power consumption with PLENTICORE plus 8.5	kW	2.5	3.3	4.2	5.0 ²⁾	5.8 ²⁾
	Max. Power consumption with PLENTICORE plus 10	kW	2.5	3.3	4.2	5.0 ²⁾	5.8 ²⁾
	Usable capacity 95% DoD ¹⁾	kWh	9.1	12.2	15.2	18.2	21.3
	Usable capacity 100% DoD ¹⁾	kWh	9.6	12.8	16.0	19.2	22.4
	Number of battery modules		3	4	5	6	7
	Nominal voltage	V	192	256	320	384	448
	Voltage range	V	180-219	240-292	300-365	360-438	420-511
	Interface to inverter		RS485				
	Height	mm	860	1050	1240	1430	1620
	Width/depth	mm	610/240				
	Weight	kg	128.9	165.3	201.7	238.1	274.5
	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'

