

PLENTICORE G3

with battery



Technical Specification

PLENTICORE G3



PLENTICORE G3			S			M			L		
Input side (DC)	Basic power	kW	4.0			8.5			15		
	Optional power upgrade level 1 ¹⁾	kW	5.5			10			17.5		
	Optional power upgrade level 2 ¹⁾	kW	7.0			12.5			20		
	Max. PV power (cos φ = 1)	kWp	6	8.25	10.25	12.75	15	18.75	22.5	26.5	30
	Max. PV power per DC input	kW	8.25	8.25	8.25	10.5	10.5	10.5	18	18	18
	Nominal DC power	kW	4.08	5.61	7.14	8.67	10.2	12.75	15.3	17.85	20.4
	Start-up input voltage (U _{DCstart})	V	95								
	Max. system voltage (U _{DCmax})	V	1000								
	MPP range at rated output (U _{MPPmin}) ³⁾	V	80	110	140	170	200	250	170	198	227
	MPP range at rated output (U _{MPPmax}) ³⁾	V	800	800	800	800	800	800	800	800	800
	Working voltage range (U _{DCworkmin} - U _{DCworkmax}) ⁴⁾	V	75...900								
	Max. input current (I _{DCmax}) DC1/DC2 input	A	17			17			30		
	Max. input current (I _{DCmax}) DC3 input	A	17			30			30		
	Number of DC inputs		3								
	Number of combined DC inputs (PV or battery)		1								
Number of independent MPP trackers		3									
DC 3 - Batterieeingang optional											
Min. Working voltage for battery input (U _{DCworkbatmin})	V	95									
Max. Working voltage for battery input (U _{DCworkbatmax})	V	650									
Max. charging/discharging current at battery input	A	17/17			30/30			30/30			
Output side (AC)	Rated power, cos φ = 1 (P _{AC,r})	kW	4.0	5.5	7.0	8.5	10	12.5	15	17.5	20
	Apparent output power (S _{AC,Nom} , S _{AC,max})	kVA	4.0/ 4.0	5.5/ 5.5	7.0/ 7.0	8.5/ 8.5	10/ 10	12.5/ 12.5	15/ 15	17.5/ 17.5	20/ 20
	Min. Output voltage (U _{ACmin})	V	320								
	Max. Output voltage (U _{ACmax})	V	460								
	Max. output current (I _{ACmax})	A	11.20			20			32		
	Grid connection		3N~, 230/400V, 50Hz								
	Standby	W	5								
Backupoperation	Backup power operation		3N~, 230/400V, 50Hz								
	Nominal output power ²⁾	kW	7.0			12.5			20		
	Nominal power per phase	kW	2.33			4.16			6.66		
	Unbalanced load	kW	tbd.								
Switching time	s	<60									
η	Max. efficiency	%	> 98	> 98	> 98	> 98	> 98	> 98	> 98	> 98	> 98
	European efficiency	%	> 97	> 97	> 97	> 97	> 97	> 97	> 97	> 97	> 97
System data	Protection class according to IEC 60529		IP 65								
	Height/width/depth	mm	561 / 409 / 237								
	Weight	kg	19.6			21.6			24.1		
	Ambient temperature	°C	-20...60								
Connection technology, DC side		SUNCLIX plug									
Directives/Certification ²⁾		CE, GS, CEI 0-21, C10/11, EN 62109-1, EN 62109-2, EN 60529, EN 50438, EN 50549-1, NA/EEA, G98, G99, EIFS2018, IEC 61727, IEC 62116, RD 1699, RD 647, RFG, TOR Erzeuger, UNE 206006, UNE 206007-1, VDE 0126-1-1, VDE-AR-N 4105, VDE-AR-N 4110, VJV2018									

¹⁾ Optional battery and power extension available for a fee from your wholesaler.

²⁾ Nominal output power: The actual output power depends on the system and storage size.

³⁾ MPP range at nominal power: Outside the MPP range, MPP control takes place below the nominal power. Based on full occupancy of all MPP trackers.

⁴⁾ Working voltage range: No feed-in takes place outside the working voltage range.

PLENTICORE G3 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⁾
Modul 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 PLENTICORE S G3	A	17/17				
Max. Power consumption with PLENTICORE S G3 - 4.0	kW	2.4	3.3	4.0	4.0	4.0
Max. Power consumption with PLENTICORE S G3 - 5.5	kW	2.4	3.3	4.1	4.9 ²⁾	5.5 ²⁾
Max. Power consumption with PLENTICORE S G3 - 7.0	kW	2.4	3.3	4.1	4.9 ²⁾	5.7 ²⁾
Max. Charging/discharging current battery input PLENTICORE M G3	A	30/30				
Max. Power consumption with PLENTICORE M G3 - 8.5	kW	4.3 ²⁾	5.8 ²⁾	7.2 ²⁾	8.5 ²⁾	8.5 ²⁾
Max. Power consumption with PLENTICORE M G3 - 10	kW	4.3 ²⁾	5.8 ²⁾	7.2 ²⁾	8.6 ²⁾	10.0 ²⁾
Max. Power consumption with PLENTICORE M G3 - 12.5	kW	4.3 ²⁾	5.8 ²⁾	7.2 ²⁾	8.6 ²⁾	10.1 ²⁾
Max. Charging/discharging current battery input PLENTICORE L G3	A	30/30				
Max. Leistungsentnahme mit PLENTICORE L G3 - 15	kW	4.3 ²⁾	5.8 ²⁾	7.2 ²⁾	8.6 ²⁾	10.1 ²⁾
Max. Leistungsentnahme mit PLENTICORE L G3 - 17.5	kW	4.3 ²⁾	5.8 ²⁾	7.2 ²⁾	8.6 ²⁾	10.1 ²⁾
Max. Leistungsentnahme mit PLENTICORE L G3 - 20	kW	4.3 ²⁾	5.8 ²⁾	7.2 ²⁾	8.6 ²⁾	10.1 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 G3 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⁾
Modul type		Li-Ion LFP 3.552 kWh, 96 V, 37 Ah, 35 kg			
Max. Charging/discharging current battery system	A	40/40			
Max. Charging/discharging current battery input PLENTICORE S G3	A	17/17			
Max. Power consumption with PLENTICORE S G3 - 4.0	kW	3.3	4.0	4.0	4.0
Max. Power consumption with PLENTICORE S G3 - 5.5	kW	3.3 ²⁾	4.9 ²⁾	5.5 ²⁾	5.5 ²⁾
Max. Power consumption with PLENTICORE S G3 - 7.0	kW	3.3 ²⁾	4.9 ²⁾	6.5 ²⁾	7.0 ²⁾
Max. Charging/discharging current battery input PLENTICORE M G3	A	30/30			
Max. Power consumption with PLENTICORE M G3 - 8.5	kW	5.8 ²⁾	8.5 ²⁾	8.5 ²⁾	8.5 ²⁾
Max. Power consumption with PLENTICORE M G3 - 10	kW	5.8 ²⁾	8.6 ²⁾	10.0 ²⁾	10.0 ²⁾
Max. Power consumption with PLENTICORE M G3 - 12.5	kW	5.8 ²⁾	8.6 ²⁾	10.5 ²⁾	10.5 ²⁾
Max. Charging/discharging current battery input PLENTICORE L G3	A	30/30			
Max. Leistungsentnahme mit PLENTICORE L G3 - 15	kW	5.8 ²⁾	8.6 ²⁾	11.5 ²⁾	14.4 ²⁾
Max. Leistungsentnahme mit PLENTICORE L G3 - 17.5	kW	5.8 ²⁾	8.6 ²⁾	11.5 ²⁾	14.4 ²⁾
Max. Leistungsentnahme mit PLENTICORE L G3 - 20	kW	5.8 ²⁾	8.6 ²⁾	11.5 ²⁾	14.4 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	261-324	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, IEC62477-1, 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 G3 with BYD Battery-Box HV



BYD Battery-Box HV		H 6.4	H 7.7	H 9.0	H 10.2	H 11.5
Modul type		HV (High Voltage) 51.2 V, 25 Ah, 1.28 kWh, 25 kg, LiFePO ₄				
Max. Charging/discharging current battery system	A	25/25				
Max. Charging/discharging current battery input PLENTICORE S G3	A	17/17				
Max. Power consumption with PLENTICORE S G3 - 4.0	kW	4.0	4.0	4.0	4.0	4.0
Max. Power consumption with PLENTICORE S G3 - 5.5	kW	4.4 ²⁾	5.2 ²⁾	5.5 ²⁾	5.5 ²⁾	5.5 ²⁾
Max. Power consumption with PLENTICORE S G3 - 7.0	kW	4.4 ²⁾	5.2 ²⁾	6.1 ²⁾	7.0 ²⁾	7.0 ²⁾
Max. Charging/discharging current battery input PLENTICORE M G3	A	30/30				
Max. Power consumption with PLENTICORE M G3 - 8.5	kW	6.4 ²⁾	7.7 ²⁾	8.5 ²⁾	8.5 ²⁾	8.5 ²⁾
Max. Power consumption with PLENTICORE M G3 - 10	kW	6.4 ²⁾	7.7 ²⁾	9.0 ²⁾	10.0 ²⁾	10.0 ²⁾
Max. Power consumption with PLENTICORE M G3 - 12.5	kW	6.4 ²⁾	7.7 ²⁾	9.0 ²⁾	10.2 ²⁾	10.5 ²⁾
Max. Charging/discharging current battery input PLENTICORE L G3	A	30/30				
Max. Leistungsentnahme mit PLENTICORE L G3 - 15	kW	6.4 ²⁾	7.7 ²⁾	9.0 ²⁾	10.2 ²⁾	11.5 ²⁾
Max. Leistungsentnahme mit PLENTICORE L G3 - 17.5	kW	6.4 ²⁾	7.7 ²⁾	9.0 ²⁾	10.2 ²⁾	11.5 ²⁾
Max. Leistungsentnahme mit PLENTICORE L G3 - 20	kW	6.4 ²⁾	7.7 ²⁾	9.0 ²⁾	10.2 ²⁾	11.5 ²⁾
Usable capacity 95% DoD ¹⁾	kWh	6.1	7.3	8.6	9.7	10.9
Usable capacity 100% DoD ¹⁾	kWh	6.4	7.7	9.0	10.2	11.5
Number of battery modules		5	6	7	8	9
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	mm	894	1014	1134	1254	1374
Width/depth	mm	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				

1) According to the battery manufacturer

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PLENTICORE G3 with BYD Battery-Box Premium HVS/HVM



BYD Battery-Box Premium		HVS 5.1	HVS 7.7	HVS 10.2	HVS 12.8	HVM 8.3	HVM 11.0	HVM 13.8	HVM 16.6	HVM 19.3	HVM 22.1
Modul type		LiFePO ₄ 2.56kWh, 102.4V, 25Ah, 38kg				LiFePO ₄ 2.76kWh, 51.2V, 53Ah, 38kg,					
Max. Charging/discharging current battery system	A	25/25				50/50					
Max. Charging/discharging current battery input PLENTICORE S G3	A	17/17									
Max. Power consumption with PLENTICORE S G3 - 4.0	kW	3.5	4.0	4.0	4.0	2.6	3.5	4.0	4.0	4.0	4.0
Max. Power consumption with PLENTICORE S G3 - 5.5	kW	3.5	5.2 ²⁾	5.5 ²⁾	5.5 ²⁾	2.6	3.5	4.4 ²⁾	5.5 ²⁾	5.5 ²⁾	5.5 ²⁾
Max. Power consumption with PLENTICORE S G3 - 7.0	kW	3.5	5.2 ²⁾	7.0 ²⁾	7.0 ²⁾	2.6	3.5	4.4 ²⁾	6.1 ²⁾	7.0 ²⁾	7.0 ²⁾
Max. Charging/discharging current battery input PLENTICORE M G3	A	30/30									
Max. Power consumption with PLENTICORE M G3 - 8.5	kW	5.1 ²⁾	7.7 ²⁾	8.5 ²⁾	8.5 ²⁾	4.6 ²⁾	6.1 ²⁾	7.7 ²⁾	8.5 ²⁾	8.5 ²⁾	8.5 ²⁾
Max. Power consumption with PLENTICORE M G3 - 10	kW	5.1 ²⁾	7.7 ²⁾	10.0 ²⁾	10.0 ²⁾	4.6 ²⁾	6.1 ²⁾	7.7 ²⁾	10.0 ²⁾	10.0 ²⁾	10.0 ²⁾
Max. Power consumption with PLENTICORE M G3 - 12.5	kW	5.1 ²⁾	7.7 ²⁾	10.2 ²⁾	12.5 ²⁾	4.6 ²⁾	6.1 ²⁾	7.7 ²⁾	10.1 ²⁾	10.5 ²⁾	10.5 ²⁾
Max. Charging/discharging current battery input PLENTICORE L G3	A	30/30									
Max. Leistungsentnahme mit PLENTICORE L G3 - 15	kW	5.1 ²⁾	7.7 ²⁾	10.2 ²⁾	12.8 ²⁾	4.6 ²⁾	6.1 ²⁾	7.7 ²⁾	10.1 ²⁾	12.2 ²⁾	14.3 ²⁾
Max. Leistungsentnahme mit PLENTICORE L G3 - 17.5	kW	5.1 ²⁾	7.7 ²⁾	10.2 ²⁾	12.8 ²⁾	4.6 ²⁾	6.1 ²⁾	7.7 ²⁾	10.1 ²⁾	12.2 ²⁾	14.3 ²⁾
Max. Leistungsentnahme mit PLENTICORE L G3 - 20	kW	5.1 ²⁾	7.7 ²⁾	10.2 ²⁾	12.8 ²⁾	4.6 ²⁾	6.1 ²⁾	7.7 ²⁾	10.1 ²⁾	12.2 ²⁾	14.3 ²⁾
Usable capacity 95% DoD ¹⁾	kWh	4.9	7.3	9.7	12.2	7.9	10.5	13.1	15.7	18.4	21.0
Usable capacity 100% DoD ¹⁾	kWh	5.1	7.7	10.2	12.8	8.3	11.0	13.8	16.6	19.3	22.1
Number of battery modules		2	3	4	5	3	4	5	6	7	8
Nominal voltage	V	204	307	409	512	153	204	256	307	358	409
Voltage range	V	160- 240	240- 360	320- 480	400- 600	120- 180	160- 240	200- 300	240- 360	280- 420	320- 480
Interface to inverter		RS485									
Height	mm	712	945	1178	1411	945	1178	1411	1644	1877	2110
Width/depth	mm	585/298									
Weight	kg	91	129	167	205	129	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'

PLENTICORE G3 with Dyness Tower



Dyness Tower		T7	T10	T14	T17
Modul 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 PLENTICORE S G3	A	17/17			
Max. Power consumption with PLENTICORE S G3 - 4.0	kW	3.3	4.0	4.0	4.0
Max. Power consumption with PLENTICORE S G3 - 5.5	kW	3.3	4.9 ²⁾	5.5 ²⁾	5.5 ²⁾
Max. Power consumption with PLENTICORE S G3 - 7.0	kW	3.3	4.9 ²⁾	6.5 ²⁾	7.0 ²⁾
Max. Charging/discharging current battery input PLENTICORE M G3	A	30/30			
Max. Power consumption with PLENTICORE M G3 - 8.5	kW	4.3 ²⁾	6.4 ²⁾	8.5 ²⁾	8.5 ²⁾
Max. Power consumption with PLENTICORE M G3 - 10	kW	4.3 ²⁾	6.4 ²⁾	8.5 ²⁾	10.0 ²⁾
Max. Power consumption with PLENTICORE M G3 - 12.5	kW	4.3 ²⁾	6.4 ²⁾	8.5 ²⁾	10.5 ²⁾
Max. Charging/discharging current battery input PLENTICORE L G3	A	30/30			
Max. Leistungsentnahme mit PLENTICORE L G3 - 15	kW	4.3 ²⁾	6.4 ²⁾	8.5 ²⁾	10.7 ²⁾
Max. Leistungsentnahme mit PLENTICORE L G3 - 17.5	kW	4.3 ²⁾	6.4 ²⁾	8.5 ²⁾	10.7 ²⁾
Max. Leistungsentnahme mit PLENTICORE L G3 - 20	kW	4.3 ²⁾	6.4 ²⁾	8.5 ²⁾	10.7 ²⁾
Usable capacity 95% DoD ¹⁾	kWh	6.7	10.2	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	168-219	252-328	336-438	420-547
Interface to inverter		RS485			
Height	mm	700	900	1100	1300
Width/depth	mm	504/380			
Weight	kg	105	146	187	228
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 G3 with Dyness Tower Pro



Dyness Tower Pro		TP7	TP11	TP15	TP19
Modul 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 PLENTICORE S G3	A	17/17			
Max. Power consumption with PLENTICORE S G3 - 4.0	kW	3.3	4.0	4.0	4.0
Max. Power consumption with PLENTICORE S G3 - 5.5	kW	3.3	4.9 ²⁾	5.5 ²⁾	5.5 ²⁾
Max. Power consumption with PLENTICORE S G3 - 7.0	kW	3.3	4.9 ²⁾	6.5 ²⁾	7.0 ²⁾
Max. Charging/discharging current battery input PLENTICORE M G3	A	30/30			
Max. Power consumption with PLENTICORE M G3 - 8.5	kW	5.8 ²⁾	8.5 ²⁾	8.5 ²⁾	8.5 ²⁾
Max. Power consumption with PLENTICORE M G3 - 10	kW	5.8 ²⁾	8.6 ²⁾	10.0 ²⁾	10.0 ²⁾
Max. Power consumption with PLENTICORE M G3 - 12.5	kW	5.8 ²⁾	8.6 ²⁾	10.5 ²⁾	10.5 ²⁾
Max. Charging/discharging current battery input PLENTICORE L G3	A	30/30			
Max. Leistungsentnahme mit PLENTICORE L G3 - 15	kW	5.8 ²⁾	8.6 ²⁾	11.5 ²⁾	14.4 ²⁾
Max. Leistungsentnahme mit PLENTICORE L G3 - 17.5	kW	5.8 ²⁾	8.6 ²⁾	11.5 ²⁾	14.4 ²⁾
Max. Leistungsentnahme mit PLENTICORE L G3 - 20	kW	5.8 ²⁾	8.6 ²⁾	11.5 ²⁾	14.4 ²⁾
Usable capacity 95% DoD ¹⁾	kWh	7.3	10.9	14.6	18.2
Usable capacity 100% DoD ¹⁾	kWh	7.7	11.5	15.4	19.2
Number of battery modules		2	3	4	5
Nominal voltage	V	192	288	384	480
Voltage range	V	168-219	252-328	336-438	420-547
Interface to inverter		RS485			
Height	mm	788	1009	1230	1451
Width/depth	mm	587/310			
Weight	kg	99.5	135	170.5	206
Ambient temperature	°C	0...50			
IP protection class		IP54			
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 G3 with LG RESU FLEX



LG Energy Solution		RESU FLEX 8.6	RESU FLEX 12.9	RESU FLEX 17.2
Modul type		Li-Ion NMC, BMA 48.9kg ³⁾ , BPU 16.5kg ³⁾		
Max. Charging/discharging current battery system	A	22/22		
Max. Charging/discharging current battery input PLENTICORE S G3	A	17/17		
Max. Power consumption with PLENTICORE S G3 - 4.0	kW	3.3	4.0	4.0
Max. Power consumption with PLENTICORE S G3 - 5.5	kW	3.3	5.0 ³⁾	5.5 ³⁾
Max. Power consumption with PLENTICORE S G3 - 7.0	kW	3.3	5.0 ³⁾	6.6 ³⁾
Max. Charging/discharging current battery input PLENTICORE M G3	A	30/30		
Max. Power consumption with PLENTICORE M G3 - 8.5	kW	4.3 ³⁾	6.5 ³⁾	8.5 ³⁾
Max. Power consumption with PLENTICORE M G3 - 10	kW	4.3 ³⁾	6.5 ³⁾	8.5 ³⁾
Max. Power consumption with PLENTICORE M G3 - 12.5	kW	4.3 ³⁾	6.5 ³⁾	8.5 ³⁾
Max. Charging/discharging current battery input PLENTICORE L G3	A	30/30		
Max. Leistungsentnahme mit PLENTICORE L G3 - 15	kW	4.3 ³⁾	6.5 ³⁾	8.5 ³⁾
Max. Leistungsentnahme mit PLENTICORE L G3 - 17.5	kW	4.3 ³⁾	6.5 ³⁾	8.5 ³⁾
Max. Leistungsentnahme mit PLENTICORE L G3 - 20	kW	4.3 ³⁾	6.5 ³⁾	8.5 ³⁾
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	mm	665.2		
Width/depth	mm	665.2/445.2	665.2/593.6	665.2/742
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 the design cover is not included

PLENTICORE G3 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⁾
Modul 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 PLENTICORE S G3	A	17/17				
Max. Power consumption with PLENTICORE S G3 - 4.0	kW	2.4	3.3	4.0	4.0	4.0
Max. Power consumption with PLENTICORE S G3 - 5.5	kW	2.4	3.3	4.1	4.9 ²⁾	5.5 ²⁾
Max. Power consumption with PLENTICORE S G3 - 7.0	kW	2.4	3.3	4.1	4.9 ²⁾	5.7 ²⁾
Max. Charging/discharging current battery input PLENTICORE M G3	A	30/30				
Max. Power consumption with PLENTICORE M G3 - 8.5	kW	4.3 ²⁾	5.8 ²⁾	7.2 ²⁾	8.5 ²⁾	8.5 ²⁾
Max. Power consumption with PLENTICORE M G3 - 10	kW	4.3 ²⁾	5.8 ²⁾	7.2 ²⁾	8.6 ²⁾	10.0 ²⁾
Max. Power consumption with PLENTICORE M G3 - 12.5	kW	4.3 ²⁾	5.8 ²⁾	7.2 ²⁾	8.6 ²⁾	10.1 ²⁾
Max. Charging/discharging current battery input PLENTICORE L G3	A	30/30				
Max. Leistungsentnahme mit PLENTICORE L G3 - 15	kW	4.3 ²⁾	5.8 ²⁾	7.2 ²⁾	8.6 ²⁾	10.1 ²⁾
Max. Leistungsentnahme mit PLENTICORE L G3 - 17.5	kW	4.3 ²⁾	5.8 ²⁾	7.2 ²⁾	8.6 ²⁾	10.1 ²⁾
Max. Leistungsentnahme mit PLENTICORE L G3 - 20	kW	4.3 ²⁾	5.8 ²⁾	7.2 ²⁾	8.6 ²⁾	10.1 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 mit article number 11FC0500ZZA-00013

PLENTICORE G3 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⁾
Modul type		Li-Ion LFP 3.552kWh, 96V, 37Ah, 35kg			
Max. Charging/discharging current battery system	A	40/40			
Max. Charging/discharging current battery input PLENTICORE S G3	A	17/17			
Max. Power consumption with PLENTICORE S G3 - 4.0	kW	3.3	4.0	4.0	4.0
Max. Power consumption with PLENTICORE S G3 - 5.5	kW	3.3 ²⁾	4.9 ²⁾	5.5 ²⁾	5.5 ²⁾
Max. Power consumption with PLENTICORE S G3 - 7.0	kW	3.3 ²⁾	4.9 ²⁾	6.5 ²⁾	7.0 ²⁾
Max. Charging/discharging current battery input PLENTICORE M G3	A	30/30			
Max. Power consumption with PLENTICORE M G3 - 8.5	kW	5.8 ²⁾	8.5 ²⁾	8.5 ²⁾	8.5 ²⁾
Max. Power consumption with PLENTICORE M G3 - 10	kW	5.8 ²⁾	8.6 ²⁾	10.0 ²⁾	10.0 ²⁾
Max. Power consumption with PLENTICORE M G3 - 12.5	kW	5.8 ²⁾	8.6 ²⁾	10.5 ²⁾	10.5 ²⁾
Max. Charging/discharging current battery input PLENTICORE L G3	A	30/30			
Max. Leistungsentnahme mit PLENTICORE L G3 - 15	kW	5.8 ²⁾	8.6 ²⁾	11.5 ²⁾	14.4 ²⁾
Max. Leistungsentnahme mit PLENTICORE L G3 - 17.5	kW	5.8 ²⁾	8.6 ²⁾	11.5 ²⁾	14.4 ²⁾
Max. Leistungsentnahme mit PLENTICORE L G3 - 20	kW	5.8 ²⁾	8.6 ²⁾	11.5 ²⁾	14.4 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 mit article number 11FC0500MZA-00013

PLENTICORE G3 with PYLONTECH Force-H3



PYLONTECH Force		H3 10.2	H3 15.36	H3 20.48	H3 25.6
Modul 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 PLENTICORE S G3	A	17/17			
Max. Power consumption with PLENTICORE S G3 - 4.0	kW	3.5	4.0	4.0	4.0
Max. Power consumption with PLENTICORE S G3 - 5.5	kW	3.5	5.2 ²⁾	5.5 ²⁾	5.5 ²⁾
Max. Power consumption with PLENTICORE S G3 - 7.0	kW	3.5	5.2 ²⁾	7.0 ²⁾	7.0 ²⁾
Max. Charging/discharging current battery input PLENTICORE M G3	A	30/30			
Max. Power consumption with PLENTICORE M G3 - 8.5	kW	6.1 ²⁾	8.5 ²⁾	8.5 ²⁾	8.5 ²⁾
Max. Power consumption with PLENTICORE M G3 - 10	kW	6.1 ²⁾	9.2 ²⁾	10.0 ²⁾	10.0 ²⁾
Max. Power consumption with PLENTICORE M G3 - 12.5	kW	6.1 ²⁾	9.2 ²⁾	10.5 ²⁾	10.5 ²⁾
Max. Charging/discharging current battery input PLENTICORE L G3	A	30/30			
Max. Leistungsentnahme mit PLENTICORE L G3 - 15	kW	6.1 ²⁾	9.2 ²⁾	12.3 ²⁾	15.0 ²⁾
Max. Leistungsentnahme mit PLENTICORE L G3 - 17.5	kW	6.1 ²⁾	9.2 ²⁾	12.3 ²⁾	15.4 ²⁾
Max. Leistungsentnahme mit PLENTICORE L G3 - 20	kW	6.1 ²⁾	9.2 ²⁾	12.3 ²⁾	15.4 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 G3 with VARTA.wall



VARTA.wall		10	15	20
Modul 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 PLENTICORE S G3	A	17/17		
Max. Power consumption with PLENTICORE S G3 - 4.0	kW	3.4	4.0	4.0
Max. Power consumption with PLENTICORE S G3 - 5.5	kW	3.4	5.1 ²⁾	5.5 ²⁾
Max. Power consumption with PLENTICORE S G3 - 7.0	kW	3.4	5.1 ²⁾	6.9 ²⁾
Max. Charging/discharging current battery input PLENTICORE M G3	A	30/30		
Max. Power consumption with PLENTICORE M G3 - 8.5	kW	5.2 ²⁾	7.9 ²⁾	8.5 ²⁾
Max. Power consumption with PLENTICORE M G3 - 10	kW	5.2 ²⁾	7.9 ²⁾	10.0 ²⁾
Max. Power consumption with PLENTICORE M G3 - 12.5	kW	5.2 ²⁾	7.9 ²⁾	10.5 ²⁾
Max. Charging/discharging current battery input PLENTICORE L G3	A	30/30		
Max. Leistungsentnahme mit PLENTICORE L G3 - 15	kW	5.2 ²⁾	7.9 ²⁾	10.5 ²⁾
Max. Leistungsentnahme mit PLENTICORE L G3 - 17.5	kW	5.2 ²⁾	7.9 ²⁾	10.5 ²⁾
Max. Leistungsentnahme mit PLENTICORE L G3 - 20	kW	5.2 ²⁾	7.9 ²⁾	10.5 ²⁾
Usable capacity 95% DoD ¹⁾	kWh	10	15	20
Usable capacity 100% DoD ¹⁾	kWh	9.5	14.25	19
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	mm	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 G3 with ZYC SIMPO HV



ZYC SIMPO HV		6.4	9.6	12.8	16	19.2	22.4	25.6
Modul 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 PLENTICORE S G3	A	17/17						
Max. Power consumption with PLENTICORE S G3 - 4.0	kW	2.2	3.3	4.0	4.0	4.0	4.0	4.0
Max. Power consumption with PLENTICORE S G3 - 5.5	kW	2.2	3.3	4.4 ²⁾	5.4 ²⁾	5.5 ²⁾	5.5 ²⁾	5.5 ²⁾
Max. Power consumption with PLENTICORE S G3 - 7.0	kW	2.2	3.3	4.4 ²⁾	5.4 ²⁾	6.5 ²⁾	7.0 ²⁾	7.0 ²⁾
Max. Charging/discharging current battery input PLENTICORE M G3	A	30/30						
Max. Power consumption with PLENTICORE M G3 - 8.5	kW	3.8	5.8 ²⁾	7.7 ²⁾	8.5 ²⁾	8.5 ²⁾	8.5 ²⁾	8.5 ²⁾
Max. Power consumption with PLENTICORE M G3 - 10	kW	3.8	5.8 ²⁾	7.7 ²⁾	9.6 ²⁾	10.0 ²⁾	10.0 ²⁾	10.0 ²⁾
Max. Power consumption with PLENTICORE M G3 - 12.5	kW	3.8	5.8 ²⁾	7.7 ²⁾	9.6 ²⁾	10.5 ²⁾	10.5 ²⁾	10.5 ²⁾
Max. Charging/discharging current battery input PLENTICORE L G3	A	30/30						
Max. Leistungsentnahme mit PLENTICORE L G3 - 15	kW	3.8	5.8 ²⁾	7.7 ²⁾	9.6 ²⁾	11.5 ²⁾	13.4 ²⁾	15.0 ²⁾
Max. Leistungsentnahme mit PLENTICORE L G3 - 17.5	kW	3.8	5.8 ²⁾	7.7 ²⁾	9.6 ²⁾	11.5 ²⁾	13.4 ²⁾	15.4 ²⁾
Max. Leistungsentnahme mit PLENTICORE L G3 - 20	kW	3.8	5.8 ²⁾	7.7 ²⁾	9.6 ²⁾	11.5 ²⁾	13.4 ²⁾	15.4 ²⁾
Usable capacity 95% DoD ¹⁾	kWh	6.1	9.1	12.2	15.2	18.2	21.3	24.3
Usable capacity 100% DoD ¹⁾	kWh	6.4	9.6	12.8	16.0	19.2	22.4	25.6
Number of battery modules		2	3	4	5	6	7	8
Nominal voltage	V	128	192	256	320	384	448	512
Voltage range	V	102-150	153-225	204-300	255-375	306-450	357-525	406-600
Interface to inverter		RS485						
Height	mm	670	860	1050	1240	1430	1620	1810
Width/depth	mm	610/240						
Weight	kg	92.5	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'

