

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, $\cos \varphi = 1$ ($P_{AC,r}$)	kW	5.5	10
	Max. apparent output power, $\cos \varphi_{adj}$	kVA	5.5	10
	Min. Output voltage (U_{ACmin})	V	320	
	Max. Output voltage (U_{ACmax})		500	
	Rated output current ($I_{AC,r}$)	A	7.94	14.43
	Max. output current (I_{ACmax})	A	8.82	16.04
	Grid connection		3N~, 230/400V, 50 Hz	
	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			
	Max. Charging/discharging current battery input inverter	A			
	Max. Power consumption with PLENTICORE BI 5.5/26	kW	5.0 ²⁾	5.5 ²⁾	5.5 ²⁾
	Max. Power consumption with PLENTICORE BI 10/26	kW	5.0 ²⁾	7.5 ²⁾	10 ²⁾
	Usable capacity 95% DoD ¹⁾	kWh	6.7	10.1	13.5
	Usable capacity 100% DoD ¹⁾	kWh	7.1	10.7	14.2
	Number of battery modules		2	3	4
	Nominal voltage	V	192	288	384
	Voltage range	V	174-216	261-324	348-432
	Interface to inverter		RS485		
	Height		822	1118	1414
	Width/depth	mm	600/380		
	Weight	kg	82	117	152
	Ambient temperature	°C	0...50		
	IP protection class		IP 55		
	Certification / Safety Standard		VDE2510-50, IEC62619, IEC62477-1, IEC62040-1, CEC, CE, UN38.3, # 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	
	Max. Charging/discharging current battery input inverter	A	
	Max. Power consumption with PLENTICORE BI 5.5/26	kW	5.5 ²⁾
	Max. Power consumption with PLENTICORE BI 10/26	kW	6.7 ²⁾
	Usable capacity 95% DoD ¹⁾	kWh	11.9
	Usable capacity 100% DoD ¹⁾	kWh	12.5
	Number of battery modules	5	6
	Nominal voltage	V	258
	Voltage range	V	224...284
	Interface to inverter	RS485	
	Height	870	
	Width/depth	mm	751/423
	Weight	kg	151
	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	160-40	240-60	320-80	400-00	200-00	240-60	280-20	320-80
	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 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

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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	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 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	22/22		
	Max. Charging/discharging current battery input inverter	26/26		
	Max. Power consumption with PLENTICORE BI 5.5/26	5.5 ²⁾	5.5 ²⁾	5.5 ²⁾
	Max. Power consumption with PLENTICORE BI 10/26	5.8 ²⁾	8.8 ²⁾	10 ²⁾
	Usable capacity 95% DoD ¹⁾	8.2	12.3	16.3
	Usable capacity 100% DoD ¹⁾	8.6	12.9	17.2
	Number of battery modules	2	3	4
	Nominal voltage	195	295	386
	Voltage range	192-265.6	288-398.4	384-531.2
	Interface to inverter	RS485		
	Height	665.2/665.2		
	Width/depth	445.2	593.6	742
	Weight	114.3	163.2	212.1
	Ambient temperature	-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			
	Max. Charging/discharging current battery input inverter	A			
	Max. Power consumption with PLENTICORE BI 5.5/26	kW	5.0 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⁾
	Usable capacity 95% DoD ¹⁾	kWh	6.7	10.1	13.5
	Usable capacity 100% DoD ¹⁾	kWh	7.1	10.7	14.2
	Number of battery modules		2	3	4
	Nominal voltage	V	192	288	384
	Voltage range	V	174-216	261-324	348-432
	Interface to inverter		RS485		
	Height		822	1118	1414
	Width/depth	mm	450/296		
	Weight	kg	82	117	152
	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		
	Max. Charging/discharging current battery input inverter	A		
	Max. Power consumption with PLENTICORE BI 5.5/26	kW	5.2 ²⁾	5.5 ²⁾
	Max. Power consumption with PLENTICORE BI 10/26	kW	5.2 ²⁾	7.9 ²⁾
	Usable capacity 95% DoD ¹⁾	kWh	9.5	14.3
	Usable capacity 100% DoD ¹⁾	kWh	10.0	15.0
	Number of battery modules		2	3
	Nominal voltage	V	201.6	302.4
	Voltage range	V	168 - 226.8	252 - 340.2
	Interface to inverter		RS485	
	Height		1306	1752
	Width/depth	mm	605 / 135	
	Weight	kg	88	124
	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

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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					
	Max. Charging/discharging current battery input inverter	A					
	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⁾	6.7 ²⁾	8.3 ²⁾	10.0 ²⁾	10.0 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		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'

