P200A

BL051200-A1

Power Lite Bundle Pack Series Specification

Ver 1.1

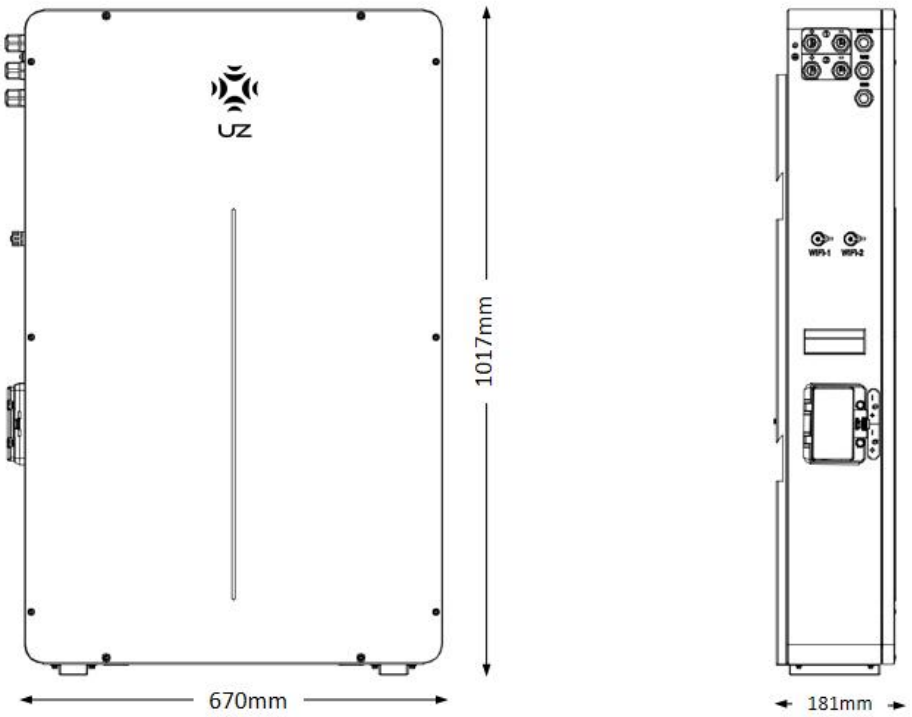
Revision History:

Date	Revision	Description	Owner
2021-08-18	V1.0	Initial Release	Mark Tang
2022-09-06	V1.1	Upgrade to integrated installation	Hu Jin

Table of Contents

1. Specification

Power Lite Bundle Pack Specification



Technical Parameters	P200A	BL051200-A1
Cell Type	-	$LiFePO_4$
Battery unit Model	-	L051100-A1
Number of Battery Units	-	2 sets of Power Lite
Rated Capacity	-	200Ah
Rated Battery Energy	-	10.24 kWh
Rated Voltage	-	51.2 V
Working Voltage Range	-	44.8-57.6 V
Rated Energy	-	10.24kWh
Usable Battery Capacity	-	200Ah
Max. Parallel Quantity	-	Max. 8 sets in parallel (80KWh)
Nominal Current (Recommended) [1]	-	0.5C,100 A
Battery Depth of Discharge	-	100%
Battery Max Charge/Discharge	-	5.12kw/5.12kw

Power		
Available SOC Range	-	0% ~ 100%
SOC Transportation Range	-	50%
Operating Temperature	-	Charging Temperature：0℃~55℃； Discharge Temperature：-20℃～55℃
Storage Temperature	-20°C ~ 50 °C	-20°C ~ 50 °C
Working Humidity	20~80%RH	20~80%RH
Standard Charging Current	-	0.5C (100A)
Maximum Charging Continuous Current	-	0.5C (100A)
Rated DC Power	-	5.12kw
IP Grade	IP65	IP65
Recommended Indoor/Outdoor Usage	Indoor/ Outdoor	Indoor/ Outdoor
Weight	~30Kg	~120Kg(Actual weight requires weighing confirmation)
Dimensions [W*D*H]	640*181*1017 mm (Not included connector)	640*181*1017 mm(Not included connector)
Communication	-	CAN/RS485/Dry Contact/WiFi
Certificate (Battery unit, Power Lite Inside)	-	TUV/IEC 62619/IEC62040/IEC61000/UN38.3
Certificate (System)	-	TUV/IEC 62619/IEC62040/IEC61000/UN38.3
Calendar Life[2]	10 Years	10 Years
Cable Specification	P200A	BL051200-A1
Battery Cable Rating	100 A, each cable	100 A, each cable
Battery Cable Type	25 mm^2 OR 4AWG	25 mm^2 OR 4AWG
*Note: Battery ΔV should be less than 3V at first Parallel installation,or BMS has a potential failure risk if ΔV 3V , please Dis/Charge the batteries to meet ΔV≤3V, or consult our engineers;		

[1]: Performance may be de-rating in extreme ambient environmental conditions

[2]: Working Condition 0.5 C @ 25 deg C, 80% DoD, 1 cycle per day

2. Technical parameters

Key parameters are listed below

CASE：

NO.	Key Item	Specification	Remark
2.1	Material	SGCC Steel, 1.2mm Thickness	
2.2	Surface	Paint, White ,Fine sand grain	
2.3	Weight	~30Kg	Refer to actual measurements
2.4	IP Level	IP65	
2.5	Dimension	WDH：640x181x1017mm	

Bracket：

NO.	Key Item	Specification	Remark
2.1	Material	SGCC Steel, 1.5mm Thickness	
2.2	Surface	Paint, white (color No. RAL9016)	
2.3	Weight	~2.5Kg	Refer to actual measurements
2.4	Dimension	WDH：480x13.5x500mm	

Output Connector

NO.	Key Item	Specification	Remark
2.1	Positive	2*PG19,White,IP67	Cable Diameter≤16mm
2.2	Negative	2*PG19,Blake,IP67	Cable Diameter≤16mm
2.3	Communication	3*PG19,Blake,IP67	

Power Lite Bundle Pack Physical Requirements

Power Lite Bundle Pack can be mounted on a floor or wall, it must also be anchored to an adjacent wall. In both types of installation, the wall must be capable of supporting the full weight of Power Lite Bundle Pack and its mounting hardware. The wall must extend to all edges of the system, allowing no access to the back of the unit one it is mounted.

Fig. 1 IP65 CASE(P200A)

Power Lite Bundle Pack includes a mounting bracket (Fig. 2), that supports the unit in both floor- and wall-mount configuration, and includes shims to level the unit in floor-mount configurations. Do not use other hardware to anchor Power Lite Bundle Pack to the wall or floor.

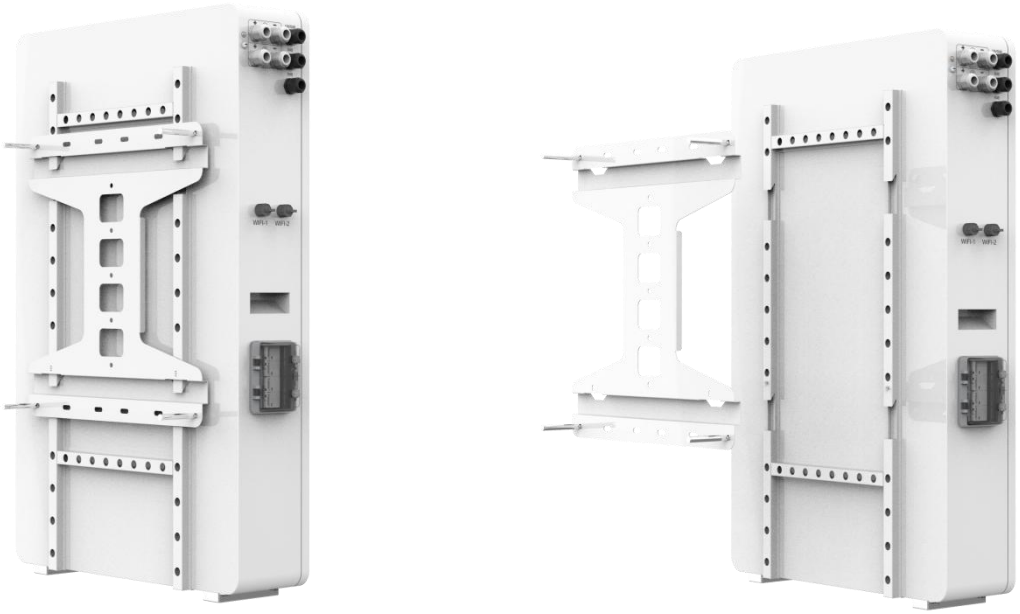


Fig.2 Bracket

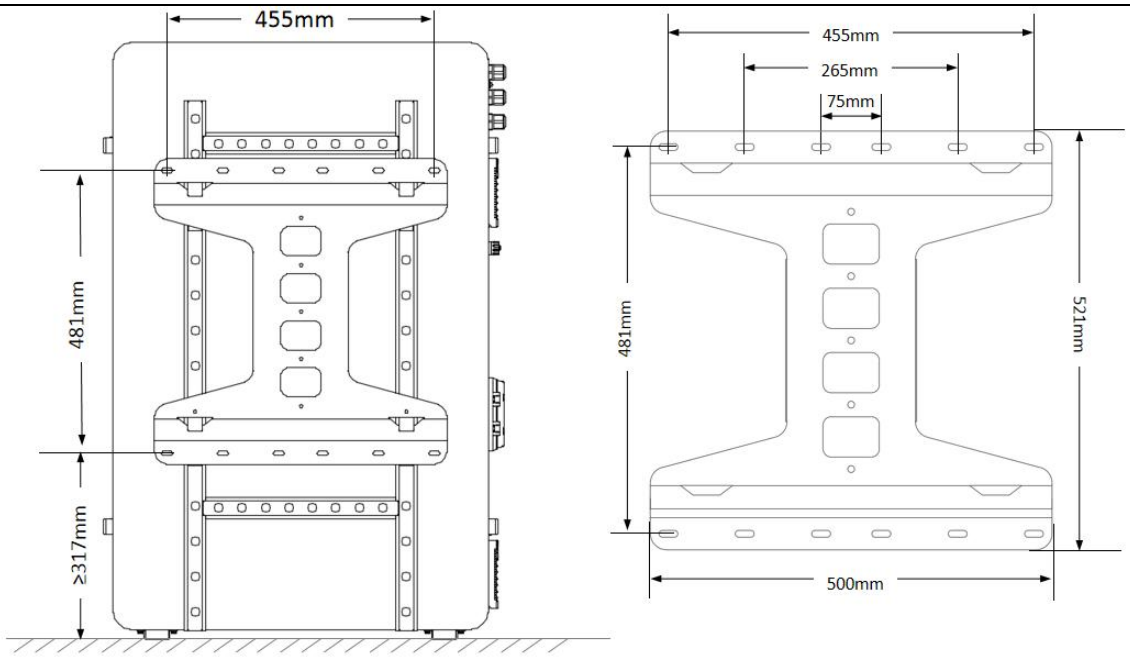


Fig. 3 Space Requirements Schematics

3. System wiring Schematic

Power Lite Bundle Pack internal battery unit communication interface definition

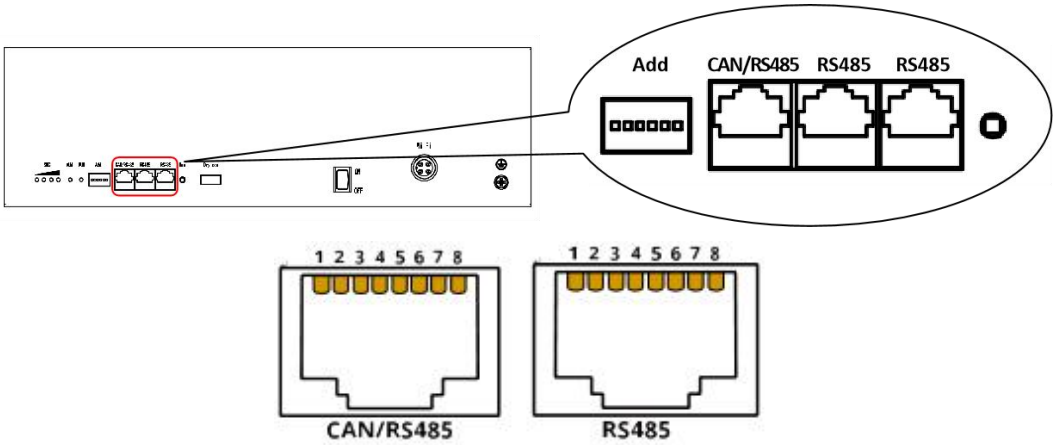


Fig. 4 CAN/RS485 and RS485 connections

	Description
CAN/RS485x1	Pin 1: NA Pin 2,7: RS485-A Pin 3,6: RS485-B Pin 4: CAN-H Pin 5: CAN-L Pin 8: GND
RS485x2	Pin 1, 4, 5: NC Pin 2, 7: RS485-A Pin 3, 6: RS485-B Pin 8: GND

Communication cable connection
Single set

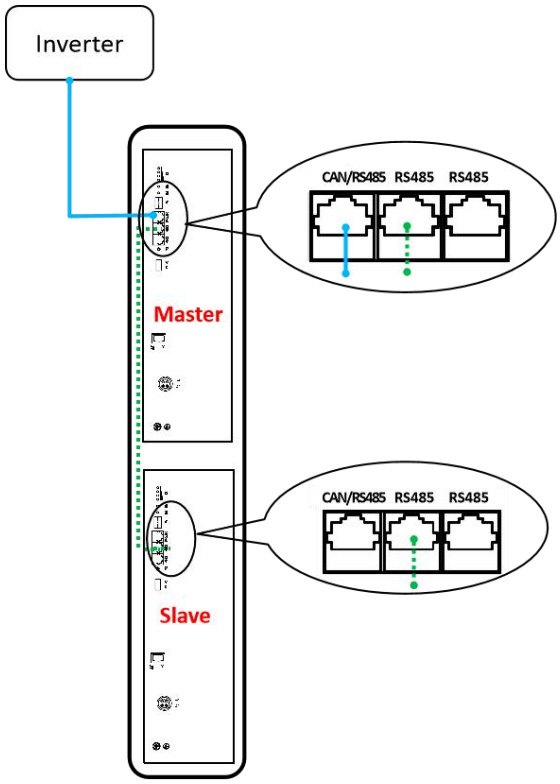


Fig. 5 Communication cable connection-Single Unit(10KWh)

Multi-Sets in Parallel(L051100-A1 inside, 3 parallel as an example)

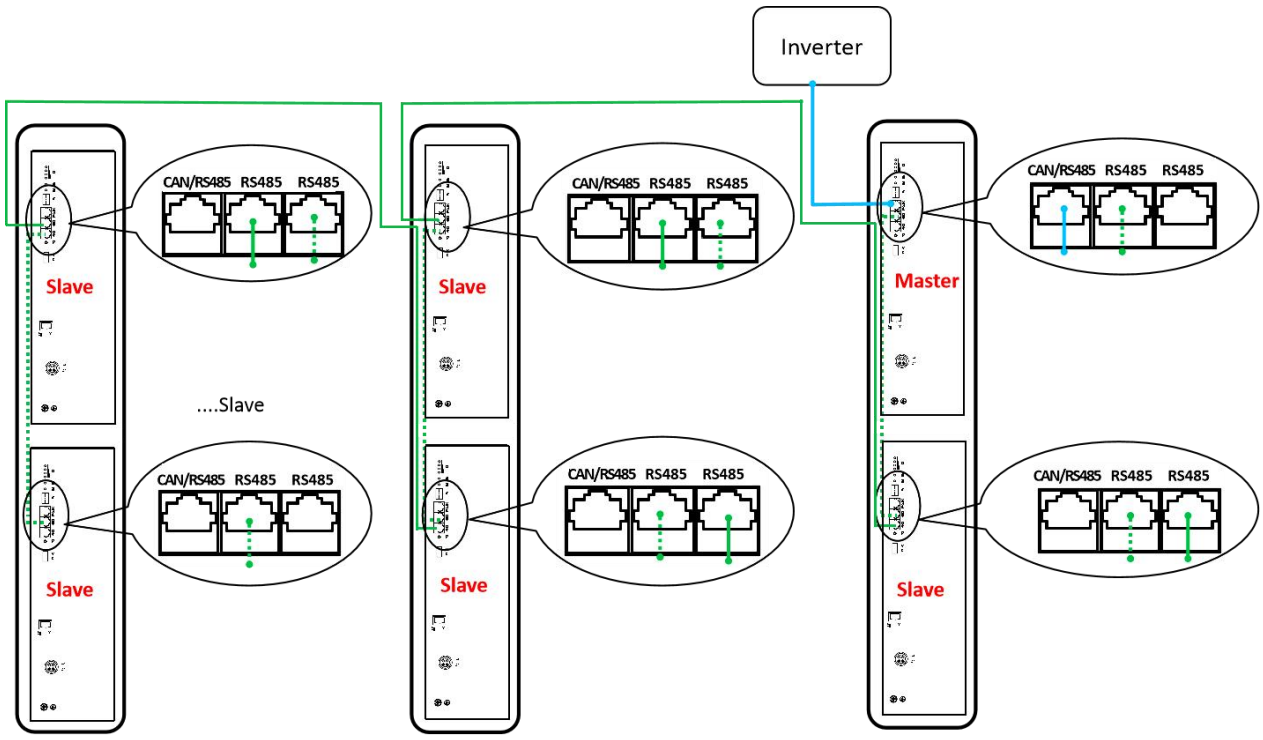


Fig. 6 Communication cable connection-3 Parallel (30KWh)
(Max. 8 sets in Parallel)

System cable connection(3 Parallel as an example)

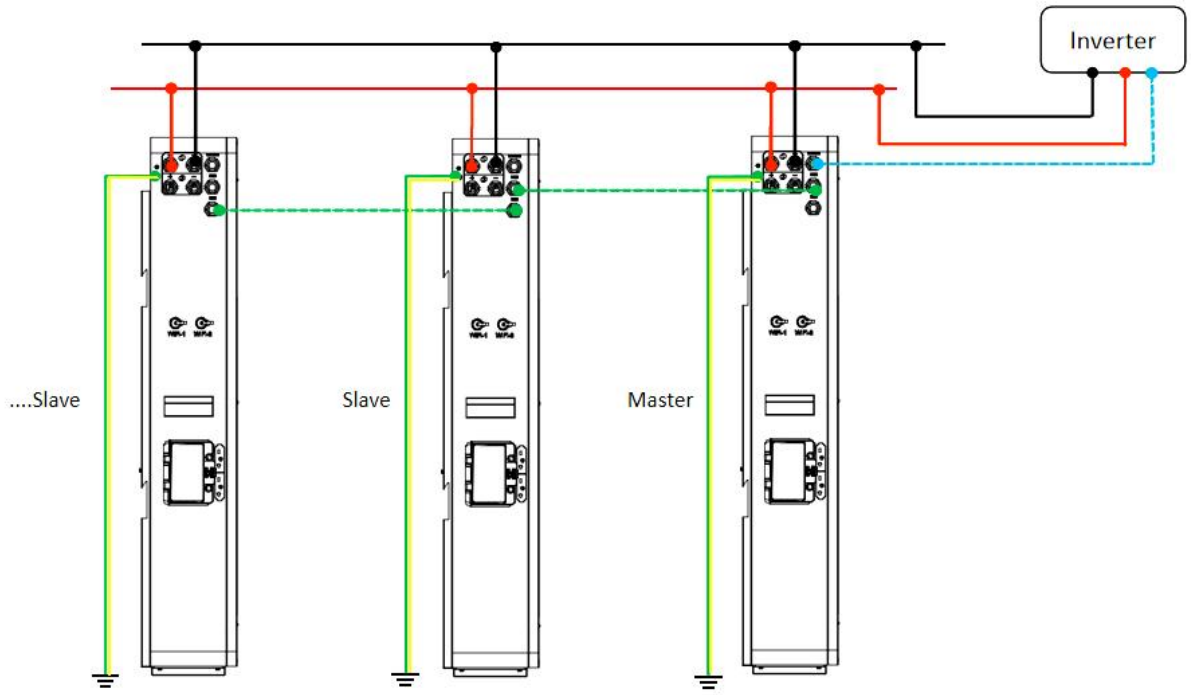


Fig. 7 Multi-Sets Connection-1(3 Parallel,30KWh,Output Power 15KW)
(Max. 8 sets in Parallel)

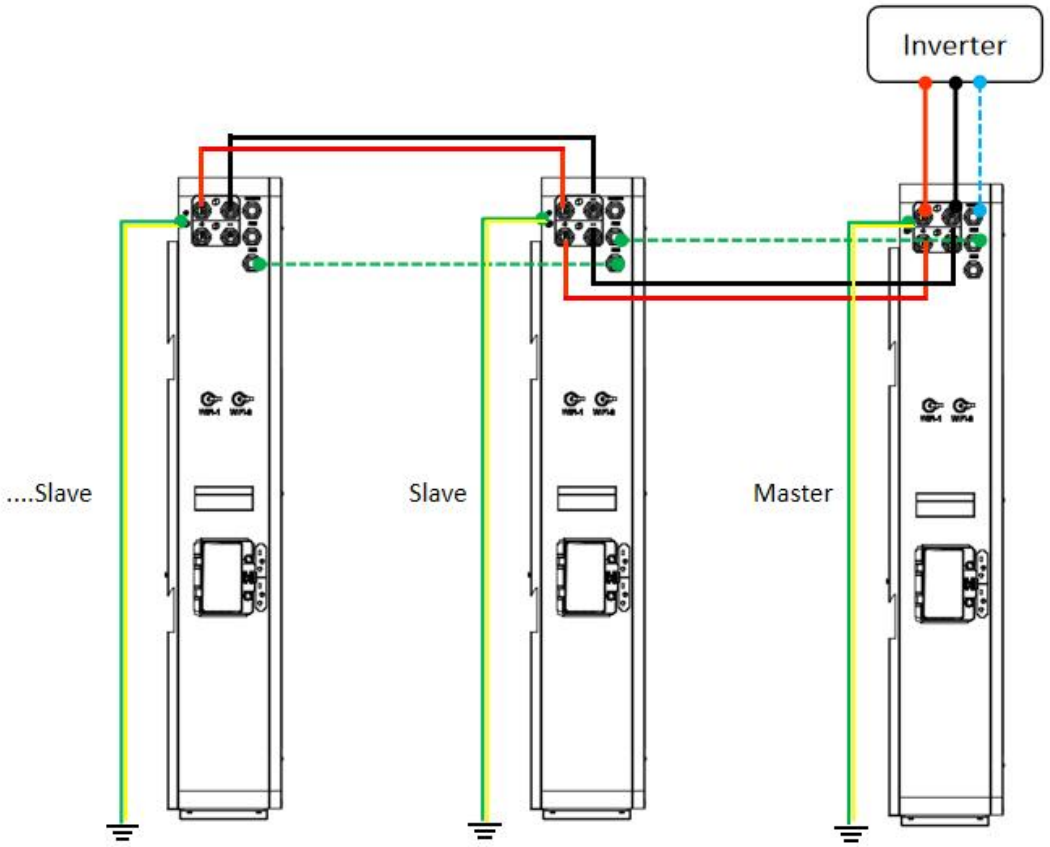


Fig. 8 Multi-plus Connection-2(3 Parallel,30KWh,Output Power 5KW)
(Max. 8 sets in Parallel)

4. Technical Support

Further support can be achieved via UZ ENERGY Service Team. Please contact the sales person when needed. The following information is useful to have ready when contacting UZ ENERGY:

- ✧ Owner Name
- ✧ Power Lite Bundle Pack part number and serial number
- ✧ Brief description of the issue

5. Maintenance

Power Lite Bundle Pack does not require pre-scheduled preventative maintenance. The only maintenance required by an owner is to keep the unit free and clear of debris, especially around the air intake and exhaust.

To clean Power Lite Bundle Pack ,use a soft, lint-free cloth. If needed, the cloth can be dampened with mild soap and water only. Do not use cleaning solvents to clean Power Lite Bundle Pack, or expose Power Lite Bundle Pack to flammable or harsh chemicals or vapors.