



Power Lite Rack
R100A Product Specification
Ver 1.2



Revision History:

Date	Revision	Description	Owner
2022-01-20	V1.0	Initial Release	Jin Hu
2022-06-08	V1.1	Updated to detachable structure	XQ Liu
2022-10-10	V1.2	1. Update wiring mode; 2. Add Max. Parallel quantity	XQ Liu



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1. Scope

This document is a specification, as an input file for the design and development of the Power Lite Rack, and as a standard for acceptance products.

2. Technical parameters

2.1 R100A Rack Key parameters are listed below

NO.	Key Item	Specification	Remark
2.1.1	Material	SGCC	
2.1.2	Surface	Paint, White (RAL 9016)	
2.1.3	Weight	~62Kg	Refer to actual measurements
2.1.4	Dimensions	Width: 600 (± 5) mm Depth: 655 (± 5) mm Height: 935 (± 5) mm	
2.1.5	IP Level	IP 20 (Indoor)	
2.1.6	Bus-bar	Max. 250A	

Key Parts are listed below

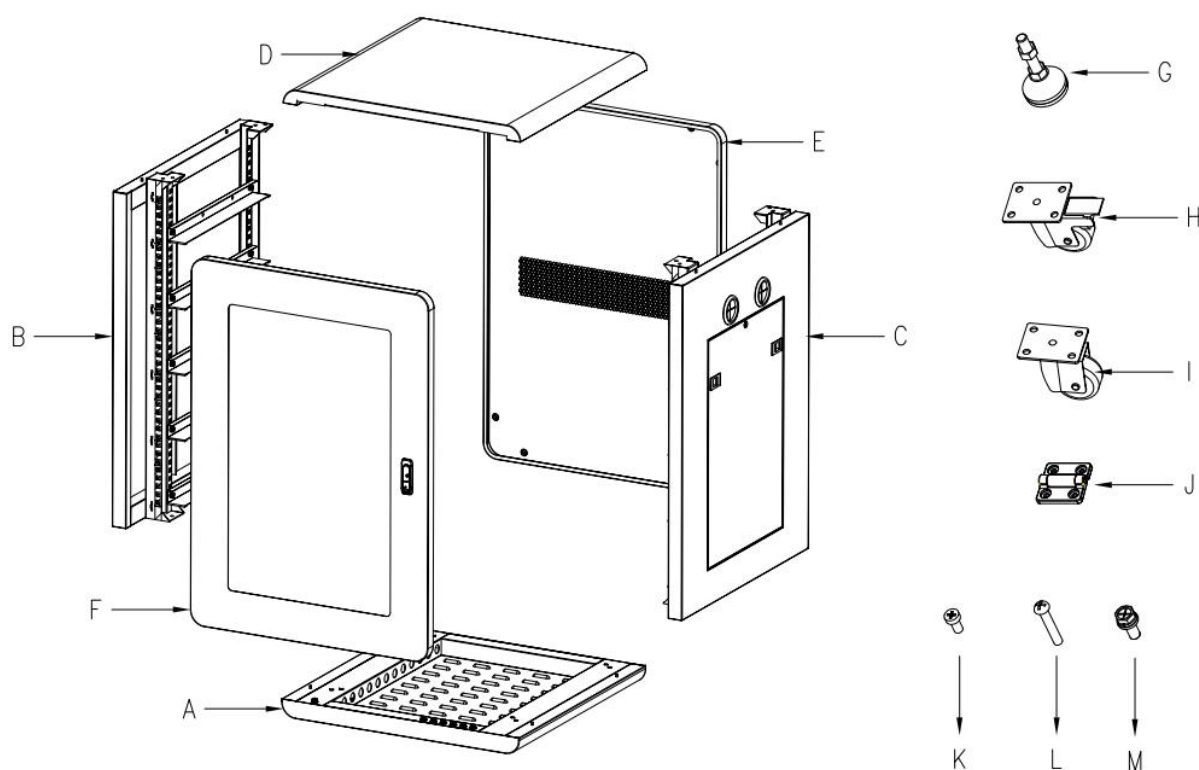


Figure 2.1 Appearance Diagram



NO	Part Name	Quantity
A	Rack chassis	1pcs
B	Rack left door	1pcs
C	Rack right door (Busbar in side)	1pcs
D	Rack cover	1pcs
E	Rack back door	1pcs
F	Rack front door	1pcs
G	Foot	4pcs
H	Casters (with brake pedals)	2pcs
I	Casters (without brake pedals)	2pcs
J	Hinge	2pcs
K	Screw(M5*10)	8pcs
L	Screw(M5*35)	8pcs
M	Screw(M6*16)	52pcs

2.2 R100A with battery Key parameters are listed below

NO.	Key Item	Specification	Remark
2.2.1	Material	SGCC	
2.2.2	Surface	Paint, White (RAL 9016)	
2.2.3	Weight	~290Kg	5 Batteries in side
2.2.4	Dimensions	Width: 600 (±5) mm Depth: 655 (±5) mm Height: 935 (±5) mm	
2.2.5	IP Level	IP 20 (Indoor)	
2.2.6	Battery	L051100-A L051100-A1 L051100-B L051100-D	Option
2.2.7	Battery Quality	Max. 5 PACKs in Rack	
2.2.8	Wifi stick	T300: L:98mm Model:V211025-R, IP65.	Option
2.2.9	Bus-bar	Max. 250A	
2.2.10	Rating Output power	12.5Kw	

3. RACK Structure

The appearance and dimensions of the rack is as follows:



Figure 3.1 Appearance Diagram

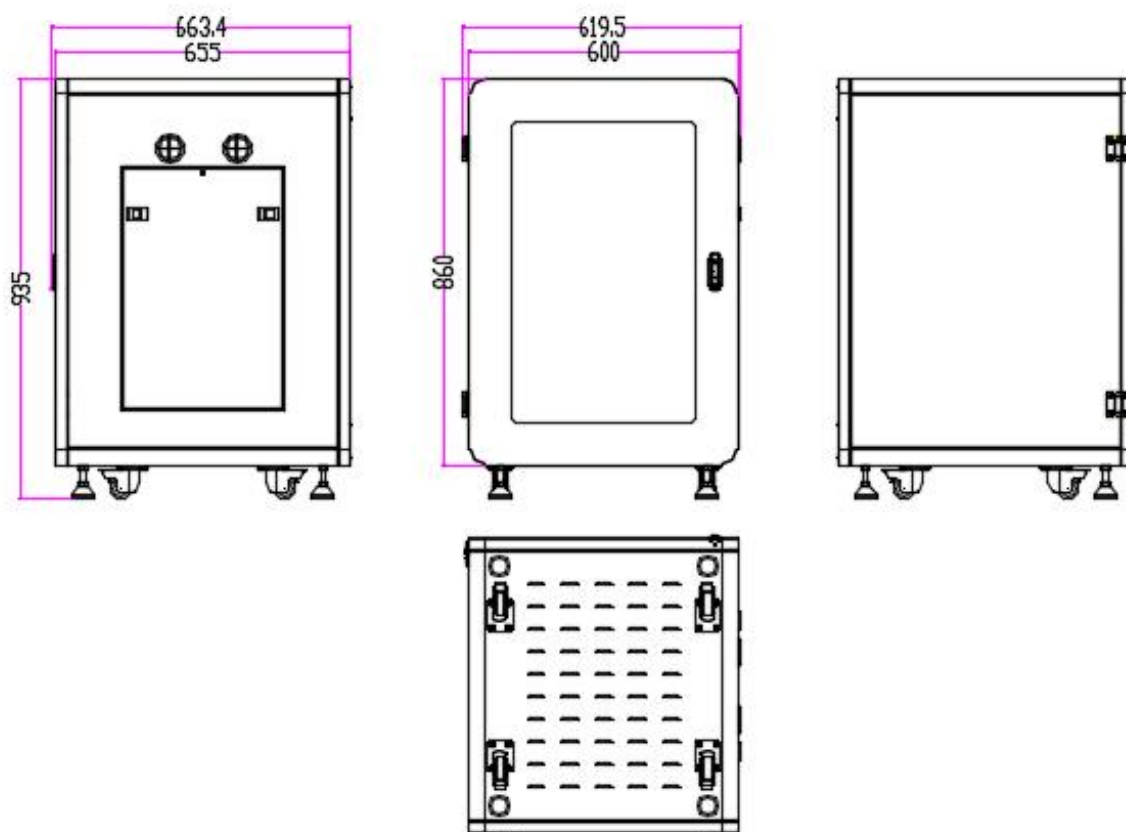


Figure 3.2. Power Lite RACK Dimensions Chart-1

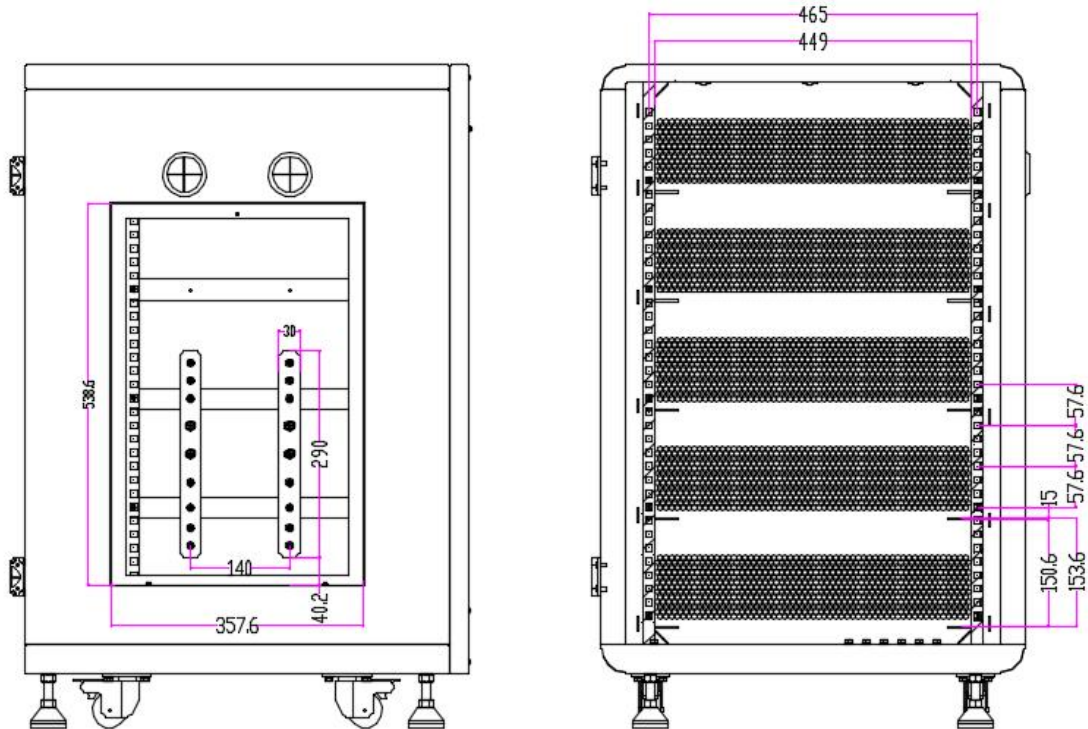


Figure 3.3. Power Lite RACK Dimensions Chart-2

4. Application scenarios

4.1 Single Unit (L051100-A1 as an example)

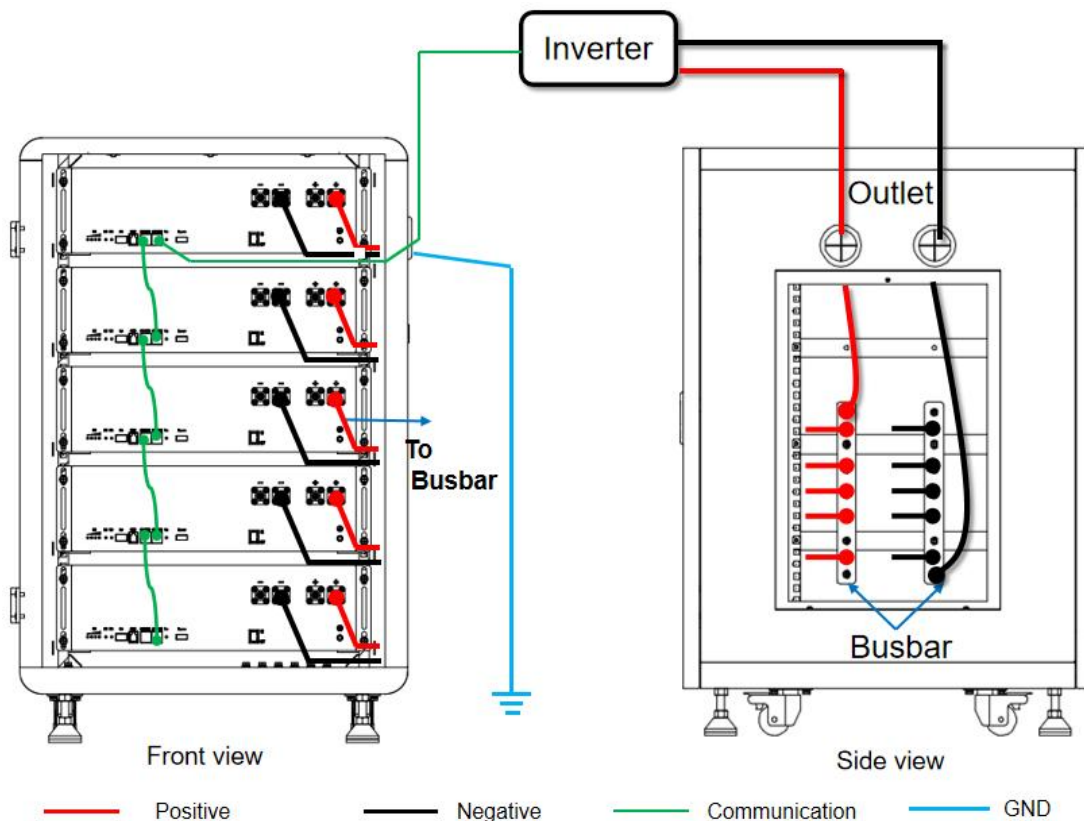


Figure 4.1 Low Voltage System—Single Unit
(51.2Vdc, 100Ah, 25KWh; Busbar Max. 250A; Rating Output power: 12.5KW)

4.2 Multi-Units in Parallel

- Max 3 units R100A in Parallel for L051100-A Battery (Max. 75KWh)
- Max 6 units R100A in Parallel for L051100-A1 /-B /-D Battery (Max. 150KWh)

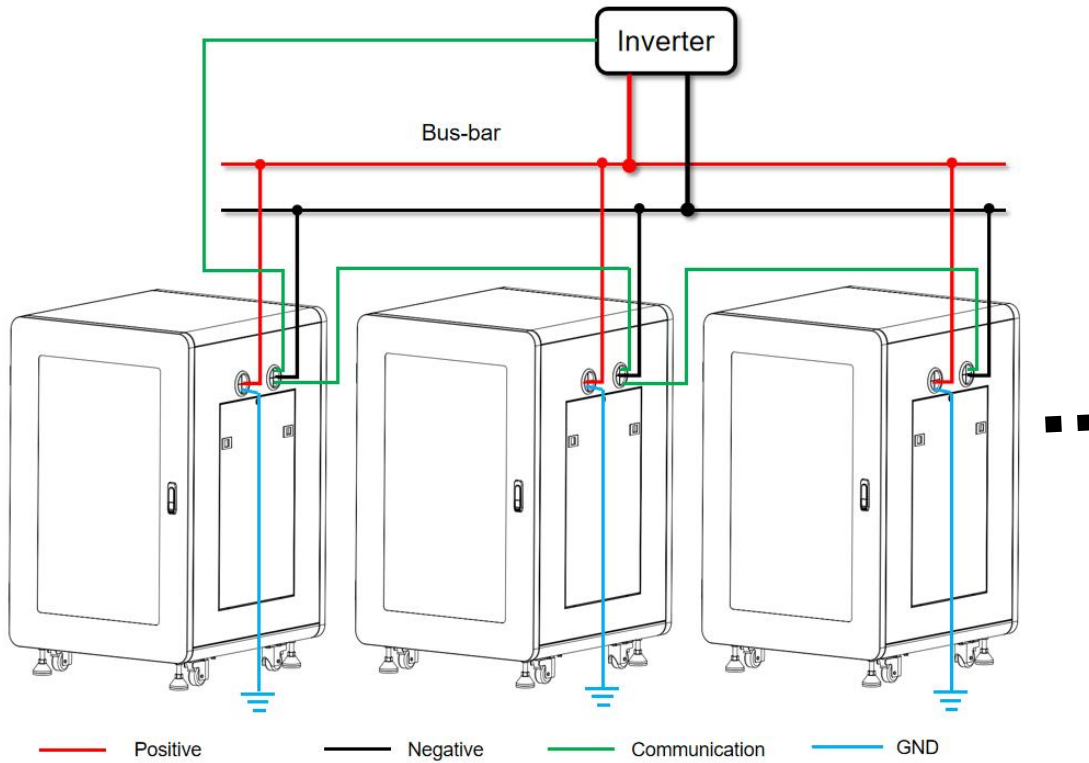


Figure4.2 Low Voltage System

5. Transportation and Storage

5.1 Transportation

During transportation, it should be protected from severe vibration, shock, sun and rain, and should not be inverted to ensure that short circuits will not occur. During the loading and unloading process, it should be handled gently to prevent falling, rolling, heavy pressure and inverted.

5.2 Storage

Product storage requirements are as follows:

Product storage place should be rain, moisture, sun protection measures.

6. Attention and Statements

6.1 Precautions

This product must comply with the operating instructions, and any installation, maintenance and use of this product must strictly comply with the relevant safety regulations.

The installation and maintenance of the products must be operated by professional technicians, and the relevant safety regulations must be strictly observed.

6.2 Declaration

The right to interpret this specification belongs to SHENZHEN UZ ENERGY LIMITED.

