

Power-Con Electronics Corp.

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Product Description

Form number	Q-31-08-05	Computer form name	Approval Sheet	Validity	Permanent
File number		Computer file name		Issue date	2024/02/29
Customer model/ Part number	TBD	Customer name			
Model	PC-XX49-1	Version	A0	Page	1/8
Product name specifications	Mobile power bank system				
Product description	Normally, it is charged by mains AC power. After removing the input power supply, it can output DC power for use.				
Special Features: <ul style="list-style-type: none">● Input voltage: 90~264VAC,47~63Hz, single phase● Output voltage: 6 outputs of 24~35VDC, typical 28±2VDC; DC1 to DC4 outputs with individual output current limit < 55A. DC 5 and DC 6 with individual output current limit < 20A.● Output energy: 28±2V@30A Sustainable operation for 1 hours● Equipment body size (Does not include handles, joints, wheels, etc.): Height ≤ 285mm, Width ≤ 420mm, Depth ≤ 380mm● Equipment body weight: ≤ 25kg (Cable not included)● Storage temperature: -10°C ~ 60°C● Operating temperature: 0°C ~ 50°C● Humidity tolerance: RH95%					
Customer name:			Power-Con Electronics Corp.		
Approver	Reviewer	Approver	Reviewer		
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Power-Con Electronics Corp.
Product description (SPECIFICATION)

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Product name, material number and specifications:

Chinese product name: 移動式儲能電源系統

English product name: Mobile power bank system

1. Function: Normally charged by mains AC power. After removing the input power supply, it can output DC power for use.
2. Mechanism material: Aluminum alloy AL6061 or AL5052
3. Color: Chromate, numbered 26440 gray paint
4. Input voltage: 90~264VAC, 47~63Hz, single phase
5. Output voltage: 6 outputs of 24~35VDC, typical 28±2VDC; DC1 to DC4 outputs with individual output current limit < 55A. DC 5 and DC 6 with individual output current limit < 20A.
6. Both input and output power supplies have independent rocking switches and are equipped with accidental touch protection.
7. Output energy: 28±2V@30A Sustainable operation for 1 hour.
8. Input interface connector * 1, using military standard socket, the socket is located on the side of the mobile power system (Not up and down), with metal cover.
9. Input interface cable * 1, Comply with US regulations UL-NEMA5-15 (three-pin plug)
10. Output interface connector * 3, adopts military regulations to connect the seat, and the seat is connected to the "8.The input interface connector" is located on the same side, with metal cover.
11. Output interface cable * 3, include connecting connector adopts "10.The output interface connector" to the mobile power system and comes with a metal protective cover. The cable definition is as follows appendix1, and in accordance with the attachment 2 Complete electrical testing and inspection test report.
12. Equipped with output over-current protection, high temperature protection and short circuit protection mechanism (shut down & auto-recovery)
13. Equipped with power-on switch, power input indicator light and charging status indicator light (Need to be able to detect charging and charging completed)
14. Voltage output value, current value, battery capacity of DC1 to DC6 can be displayed on the panel.
15. Built-in Battery type: LiFePO4 with output and charging protection and easy to replace.
16. Equipped with RS485 and CANbus interface for external communication that can detect and read the total battery output voltage, total current and the voltage across each output of parallel-connected batteries.

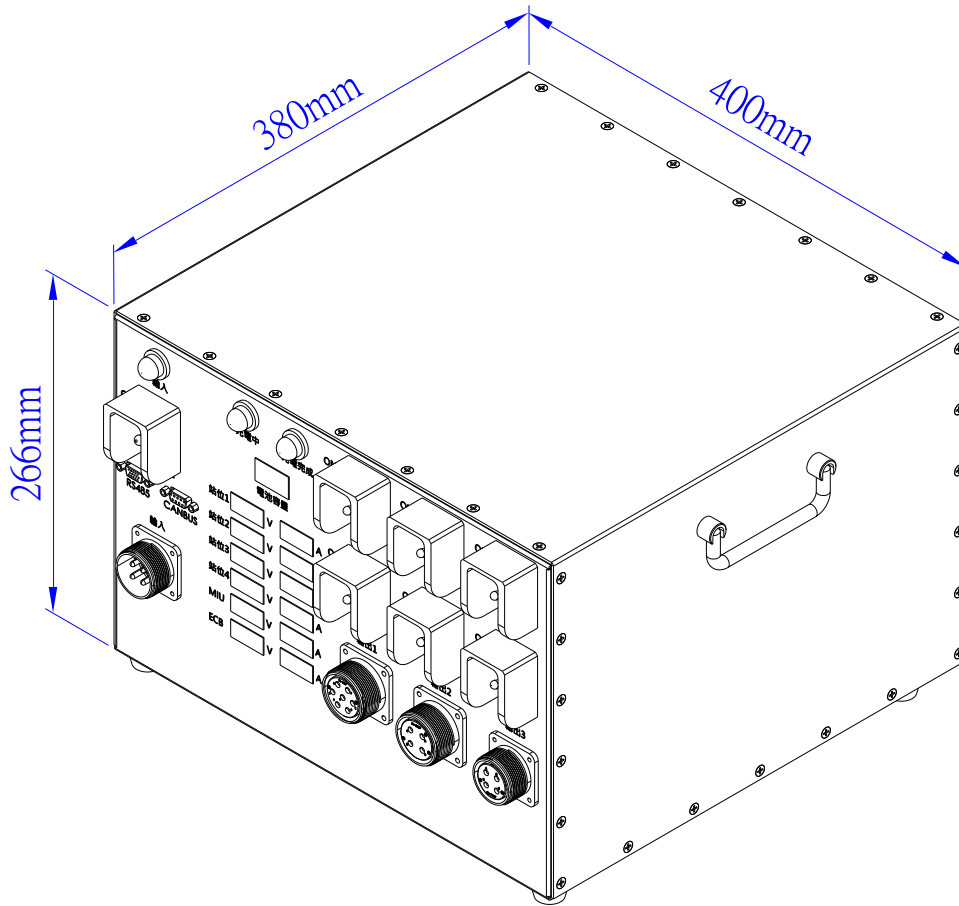
Power-Con Electronics Corp.
Product description (SPECIFICATION)

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<p>17. Within 48 hours after the battery is in a static state, the maximum voltage difference between each output and parallel connected batteries is $\leq 50\text{mV}$. (Static state:(1) The battery is fully charged (2) Input mains disconnected (3) DC1 to DC6 outputs remain off)</p> <p>18. Body size (Does not include handles, joints, wheels, etc.): Height $\leq 285\text{mm}$, width $\leq 420\text{mm}$, depth $\leq 380\text{mm}$.</p> <p>19. Body weight: $\leq 25\text{kg}$ (Cable not included)</p> <p>20. Storage temperature: $-10^{\circ}\text{C}\sim 60^{\circ}\text{C}$.</p> <p>21. Operating temperature: $0^{\circ}\text{C}\sim 50^{\circ}\text{C}$.</p> <p>22. Humidity tolerance: RH95%,</p> <p>23. Tool handles for people to lift.</p> <p>24. Option to provide 4-wheel trolley can carry the power bank body.</p> <p>A. At least 2 wheels are steering wheels with brakes</p> <p>B. When the power bank body is placed on the trolley, an auxiliary fixing mechanism is required to prevent the equipment from excessive shaking when the trolley moves.</p> <p>C. When the power bank body is fixed on the trolley, the height of the output socket must be lower than the ground 75cm high.</p> <p>D. Provides mounting or storage space for 1 input cable and 3 output cables.</p> <p>Above are the main specifications</p>					

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Mechanical Outline Drawing

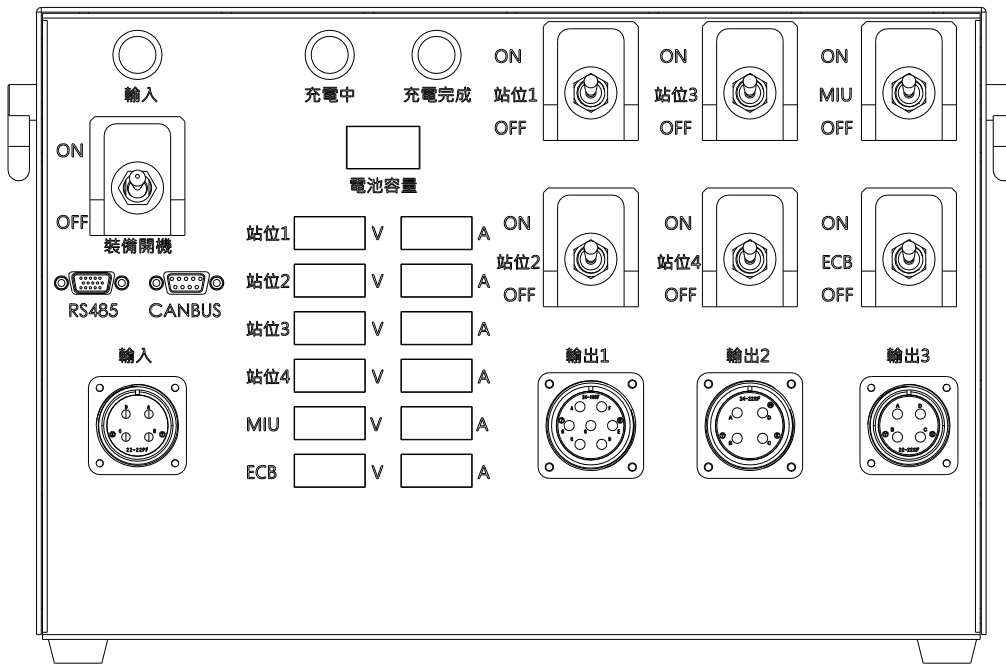


外觀尺寸圖

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Product description (SPECIFICATION)

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Panel plot



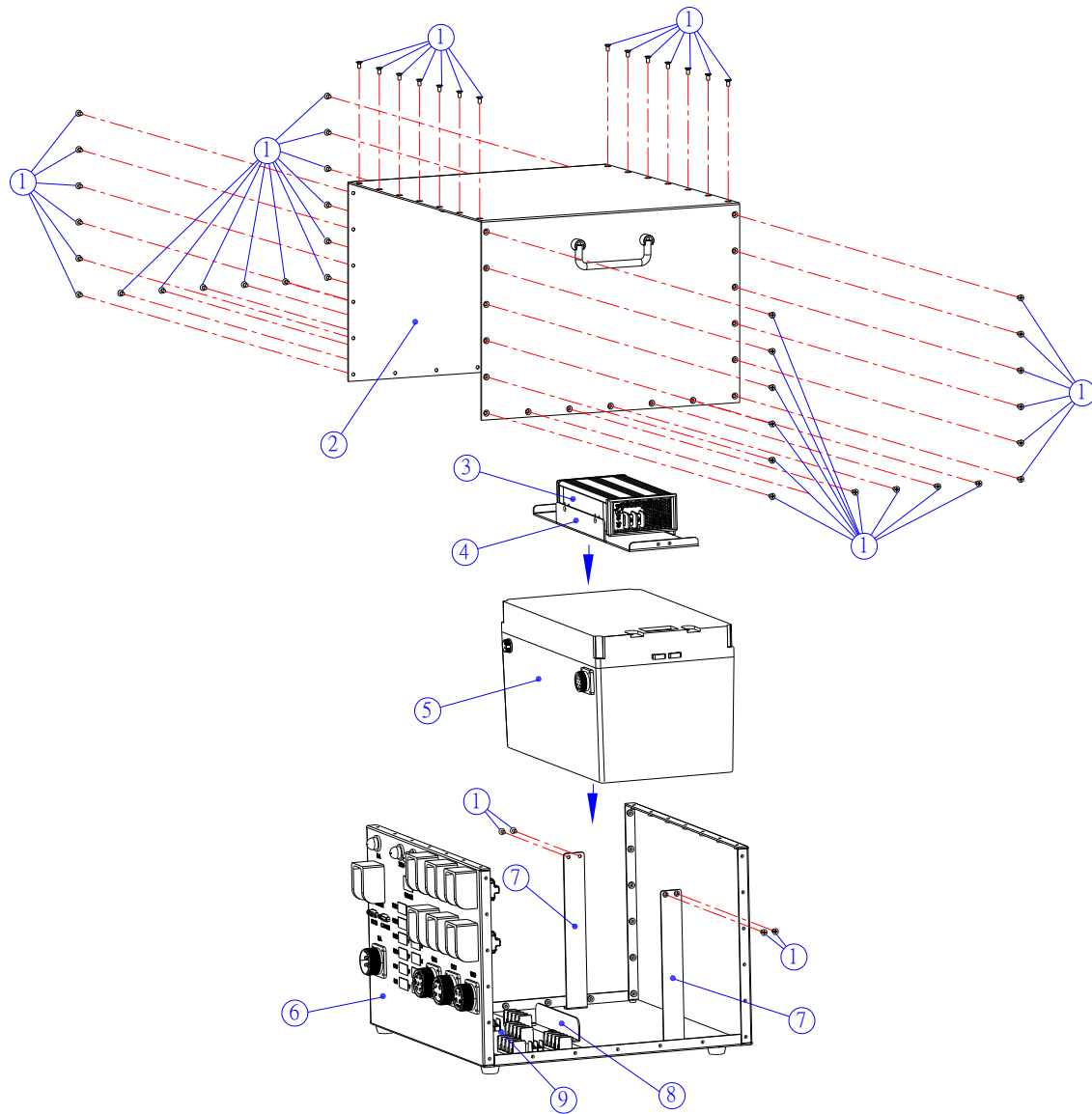
面版圖

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Exploded view



Item	Name	P/N
1	Pan head Phillips screws	1MR0000075
2	Top cover	1MA0000538
3	Battery Charger	BAT-240-30-01
4	Mounting Chassis	1MA0000543
5	LiFePO4 Battery	
6	Bottom Case	1MA0000537
7	Battery mounting bracket	1MA0000542
8	L mounting bracket	1MA0000541
9	MAIN circuit board	1ZC0001399

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Output interface cable connector model and signal definition appendix 1

1. Cable1 (Cable ends marked P12)

ITEM	Applies to:	Cable length	Cable model				Cable number
1		1.4 meters	Manufacturer's choice of cable (subject to applicable required voltage and current specifications)				
Number of lines used 04	UNIT A	Single machine name Mobile power system	Connector location TBD	Connector model (manufacturer chooses connector) Cover model (corresponds to the above connector cover)		Backshell Model Manufacturer's choice	
Number of reserve lines 00	UNIT B	Single machine name Equipment of our hospital	Connector location P12	Connector model MS17344C32C17S or TML17344C32C17S Cover model MS17350C32		Backshell Model Manufacturer's choice (Reference model RC2/A0-3232-7816-BJ)	
Number of lines	C/G	UNIT A Contact position	Wire number	Thread color	UNIT B Contact position	Signal content	Number of lines
1			1 2 3 4		A B C D	DC1(+) DC1(-) DC2(+) DC2(-)	1
5							5

NOTE: Both ends of the cable connector need to have adapter seats (Backshell) Sealed against water and moisture, contacts must not be exposed

2. 2.cable2(Cable ends marked P13)

ITEM	Applies to:	Cable length	Cable model				Cable number
2		1.4 meters	Manufacturer's choice of cable (subject to applicable required voltage and current specifications)				
Number of lines used 04	UNIT A	Single machine name Mobile power system	Connector location TBD	Connector model (manufacturer chooses military specification connector) Cover model (corresponds to the above connector cover)		Backshell Model Manufacturer's choice	
Number of reserve lines 00	UNIT B	Single machine name Equipment of our hospital	Connector location P13	Connector model MS17344C32C17SW or TML17344C32C17SW Cover model MS17350C32		Backshell Model Manufacturer's choice (Reference model RC2/A0-3232-7816-BJ)	

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Number of lines	C/G	UNIT A Contact position	Wire number	Thread color	UNIT B Contact position	Signal content	Number of lines
1			1		A	DC3(+)	1
			2		B	DC3(-)	
			3		C	DC4(+)	
			4		D	DC4(-)	
5							5

NOTE: Both ends of the cable connector need to have adapter seats (Backshell) Sealed against water and moisture, contacts must not be exposed

3. 3. cable3 (Cable ends marked P15)

ITEM	Applies to:	Cable length	Cable model			Cable number
3		1.4 meters	Manufacturer's choice of cable (subject to applicable required voltage and current specifications)			
Number of lines used 04	UNIT A	Single machine name Mobile power system	Connector location TBD	Connector model (manufacturer chooses military specification connector) Cover model (corresponds to the above connector cover)		Backshell Model Manufacturer's choice
Number of reserve lines 00	UNIT B	Single machine name Equipment of our hospital	Connector location P15	Connector model MS17344C24C22S or TML17344C24C22S Cover model MS17350Twenty four		Backshell Model Manufacturer's choice (Reference model RC2/A0-3224-4609-BJ)

Number of lines	C/G	UNIT A Contact position	Wire number	Thread color	UNIT B Contact position	Signal content	Number of lines
1			1		A	DC5(+)	1
			2		B	DC5(-)	
			3		C	DC6(+)	
			4		D	DC6(-)	
5							5

NOTE: Both ends of the cable connector need to have adapter seats (Backshell) Sealed against water and moisture, contacts must not be exposed