



*Make Battery Better by **Innovations***

Quality Manufacturer of Batteries Analyzer and Testing Equipment

PES-L Series Portable Energy System

- Li-ion battery Portable Power System



PES-L450

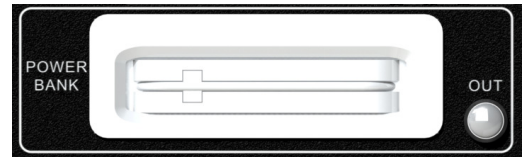
- Detachable Power Bank
- Large LCD Display
- 3 Levels LED Flash
- Different AC Output Power
- USB, Type C and 12V DC

Ideal cost-effective outdoor power solution, supporting AC and DC output, fully support all type outdoor power requires. Special for camping, construction site and power outages

Specific Features:

Share your power bank:

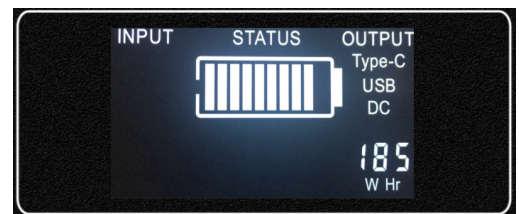
- Detachable power bank for more flexible charging requirements.
- Share the power bank for more portability.
- Don't need to carry the unit while charging smaller devices.
- Extra USB charging ports.



Large LCD display:

LCD display panel is divided into 3 sections:

- INPUT: Charging status
- STATUS: Graphic battery shape display bars to show the battery level.
- OUTPUT: It shows which port working and remaining power status



Multiple outputs:

- Detachable power bank x 1 *
- 110V AC x 2
- 5V USB x 2
- 20V Type C x 1
- 12V Car charger x 1



PES-L450

*Only available for PES-L450 and PES-L300.

3 types L-series:

3 types L-series with different max power output specifications:

- PES-L450: Max output 450W
- PES-L300: Max output 300W
- PES-L150: Max output 150W



PES-L150

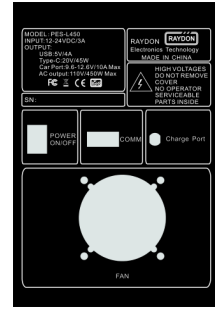
PES-L300

PES-L450

Specific Features:

Input and Safety:

- Input 1: Recharged from an AC wall outlet (charging adapter included).
- Input 2: Recharged from solar panel living outdoor.
- Safety: Modified sine wave provides safe, clean and stable power.
- Protection: Built-in cell balance protection, over current protection, over voltage protection, under voltage protection and short circuits protection.



Back panel

Output stages:

PES-L series is special design for outdoor power solution, it can be used for:

- Regular: Notebook, tablet, phone etc.
- Camping: Portable refrigerator, voice box, speaker etc.
- Outdoor party: Small blender, small household ice shaver, projector etc.
- RV (recreational vehicle): RV fan, RV lightings, RV TV, water pump etc.
- Construction site, shooting site etc.



Turnkey solution provide:

We can also customize the energy system for different requires:

- Customize different power level, bigger power or smaller power.
- Customize different using environment, like waterproof.
- Customize specific function/stage, like camera, flying drone, boat electronic device, emergency device, medical device etc.

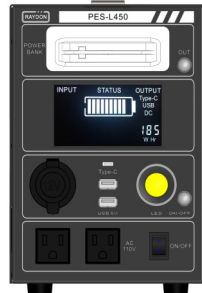


Technical Specifications:

Item	Features	Specifications	PES-L150	PES-L300	PES-L450
Input	DC Adapter Input	Input Voltage	16Vdc	16Vdc	16Vdc
		Maximum Input Current	3.2A	3.2A	3.2A
		Socket Type	DC Jack 5.5*21mm	DC Jack 5.5*21mm	DC Jack 5.5*21mm
Output	USB Type A Output	No. of Channel	2	2	2
		Output Voltage	5Vdc ±5%	5Vdc ±5%	5Vdc ±5%
		Maximum Output Power	20W (Combined)	20W (Combined)	20W (Combined)
	USB Type C Output	No. of Channel	1	1	1
		Output Voltage	20Vdc(5/9/12/15/18/20) ±5%	20Vdc(5/9/12/15/18/20) ±5%	20Vdc(5/9/12/15/18/20) ±5%
		Maximum Output Power	45W (Per Channel)	45W (Per Channel)	45W (Per Channel)
	Car Lighter Output	No. of Channel	1	1	1
		Output Voltage	9.6 ~ 12.6 Vdc ± 2%	9.6 ~ 12.6 Vdc ± 2%	9.6 ~ 12.6 Vdc ± 2%
		Maximum Output Power	10A/120W	10A/120W	10A/120W
	Power Bank	Channel	N/A	1	1
		Power charger	N/A	5V/2A	5V/2A
	AC Output	No. of Channel	2	2	2
		Output Voltage	110Vac ±10%	110Vac ±10%	110Vac ±10%
		Normal Output Power	120W (Combined)	200W (Combined)	400W (Combined)
		Maximum Output Power	150W (Combined)	300W (Combined)	450W (Combined)
		Output Frequency	60Hz ±1Hz	60Hz ±1Hz	60Hz ±1Hz
		Output Wave	Modified Sine Wave		
Functional Accessories	LED Light Strip	Power	1W		
		Input Voltage	3V		
		Dimension	30mm		
		Color	White		
	LCD Display	Color	White color on black	White color on black	White color on black
	Power Output Switch	ON/OFF	Locked/Blue Light	Locked/Blue Light	Locked/Blue Light
	AC Output Switch	ON/OFF	Locked/Blue Light	Locked/Blue Light	Locked/Blue Light
	LED Light Switch	ON/ OFF	Momentary/No Light	Momentary/No Light	Momentary/No Light
	Cooling Fan	Temperature Activated	ON: > 40℃(104 F)	ON: > 40℃(104 F)	ON: > 40℃(104 F)
			OFF: < 36℃ (97 F)	OFF: < 36℃ (97 F)	OFF: < 36℃ (97 F)
Battery Module	Battery Pack	Battery Type	Li-ion	Li-ion	Li-ion
		Cell Capacity	2600 mAh	2600 mAh	2600 mAh
		Pack Design Voltage	11.1 V	11.1V	11.1 V
		Cell Configuration	3S5P	3S8P	3S15P
		Pack Wh	145Wh	231 Wh	433 Wh
		Pack Capacity	13 Ah	21 Ah	39 Ah
		Maximum Power Output	150 W	300 W	450 W
Physical	Dimensions	W x H x L	155*167*205mm	155*2110*245mm	155*225*275mm
	Weight		3.7kg/8.2lbs	5.4kg/11.9lbs	7.3kg/16.1lbs
	Body Color		Black	Black	Black
	Operating Temperature	Charge	0 ~ 45 ℃	0 ~ 45 ℃	0 ~ 45 ℃
		Discharge	20 ~ 60 ℃	20 ~ 60 ℃	20 ~ 60 ℃
	Storage Temperature	1 month	-10 ~ 60 ℃	-10 ~ 60 ℃	-10 ~ 60 ℃
	(for Shipping State)	3 months	-5 ~ 45 ℃	-5 ~ 45 ℃	-5 ~ 45 ℃

Power Specifications:

			Model	PES-L150	PES-L300	PES-L450
			Battery Type	Li-ion	Li-ion	Li-ion
			Cell Capacity	2600mAh	2600mAh	2600mAh
			Battery Spec.	3S5P	3S8P	3S15P
			Pack Capacity (Ah)	13	21	39
			Effective Power	145Wh/13AH	231Wh/21AH	433Wh/39AH
			Power Rating (Wh)	145	231	433
			Max Power Output	150W max	300W max	450W max
DC Output	Connection Device		Full Load Run Time (hrs)	Full Load Run Time (hrs)	Full Load Run Time (hrs)	Full Load Run Time (hrs)
USB	Standard USB 500mA Output		43.3	69.0	129.4	
	Smartphone USB 1.4A Output		15.5	24.7	46.2	
	iPad USB 2.1A Output		10.3	16.4	30.8	
	Max USB 4.0A Output		5.4	8.6	16.2	
12V DC	USB Car charging max output 4.2A		2.1	3.4	6.4	
	Laptop Car charging 11.5V - 16VDC 5.6Amax 60W		1.8	2.9	5.4	
	10.5L Mini car refrigerator 0.36kW/24hrs		7.2	11.5	21.6	
	Surveillance camera DC12V ±10% 7W		15.5	24.7	46.2	
	Car radio station DC13.8V		37.9	60.3	113.1	
LED	5W LED Light		21.7	34.5	64.7	
AC Output	Connection Device	Full Load Run Time (hrs)	Full Load Run Time (hrs)	Full Load Run Time (hrs)	Full Load Run Time (hrs)	Full Load Run Time (hrs)
Mini electrical equipment	32 inch LED TV	55	1.8	2.8	5.2	
	Blu-ray DVD Player	19	8.8	13.9	26.1	
Camping equipment	Electronic mosquito lamp	15	6.4	10.2	19.2	
Office equipment	Ultra Book : 45W Adaptor	45	2.1	3.4	6.4	
	Medium laptop : 60W Adaptor	60	1.6	2.6	4.8	
	High power laptop : 90W Adaptor	90	1.1	1.7	3.2	
	Desktop PC	200	X	0.8	1.4	
	Bubble Jet Printer	10	9.6	15.3	28.8	
Power tool	Hand mill	300	X	0.5	1.0	
	Electric hand drill	300	X	0.5	1.0	
	Domestic pump (128W , 1.0cube , 12m head)	128	0.8	1.2	2.2	

AC Output	Connection Device	Max Power (W)	Full Load Run Time (hrs)	Full Load Run Time (hrs)	Full Load Run Time (hrs)
Others	Blender : 150W	150	0.6	1.0	1.9
	Blender : 300W	300	X	0.5	1.0
	Blender : >450W	>450	X	X	X
	Other Device	>500	X	X	X
DC Output			Charge Cycle (times)	Charge Cycle (times)	Charge Cycle (times)
Smart Phone	iPhone 8, 8P, X, XS etc.	11.80	9.2	14.6	27.4
	iPad	42.00	2.6	4.1	7.7
	iPad Mini	16.70	6.5	10.3	19.4
	iPad Air	32.00	3.4	5.4	10.1
	3000mAH Phone	11.10	9.8	15.5	29.1
	10000mAH Tablet	37.00	2.9	4.7	8.7
Input			Fully Charge (hrs)	Fully Charge (hrs)	Fully Charge (hrs)
Solar Panel	17.5V/21W		12.8	19.5	34.5
Wall Outlet	110V/220V, 16Vdc 3.2A max Adaptor		6.1	8.6	14.2
Model			PES-L150	PES-L300	PES-L450
					



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