

BUILDING A SOLAR-POWERED WORLD



LESSO NEW ENERGY DEVELOPMENT PRIVATE LIMITED

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Company Overview

Headquartered in Singapore, LESSO Solar specializes in making solar panels and related products and providing new-energy solutions covering various clients' needs: residential, commercial, industrial, commercial and utility scale.

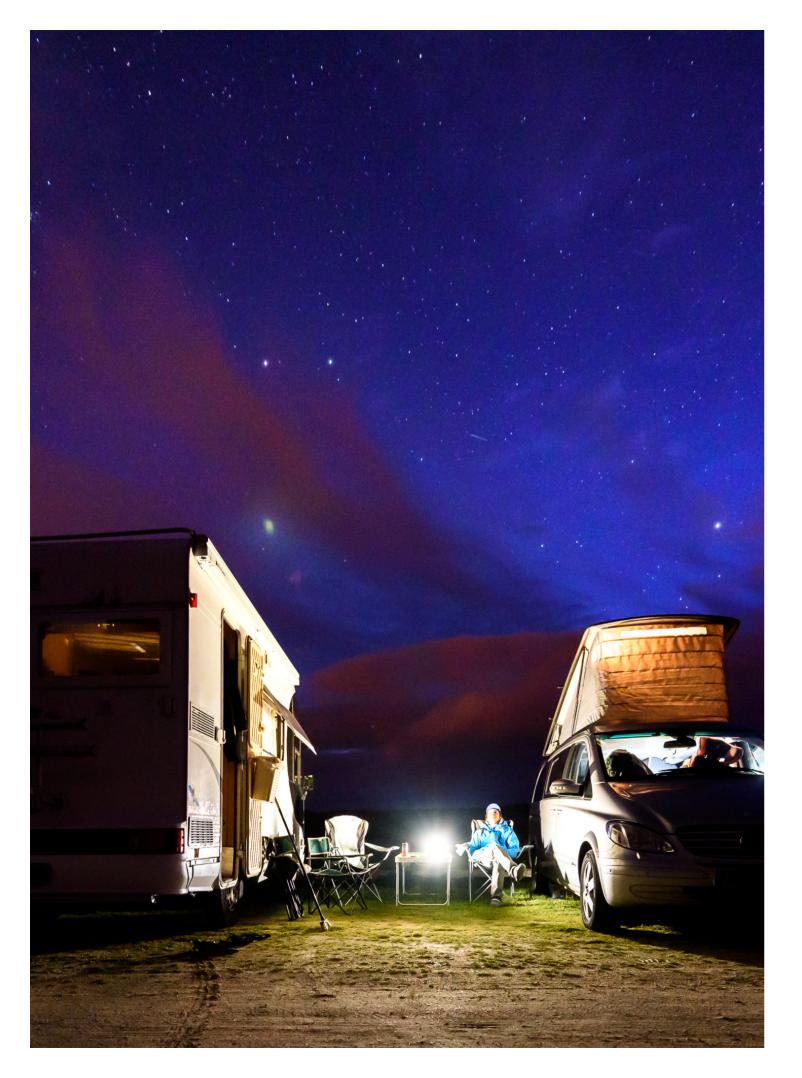
Building a Green Energy Ecosystem

The world's demand for energy is rapidly shifting towards a preference for green energy.

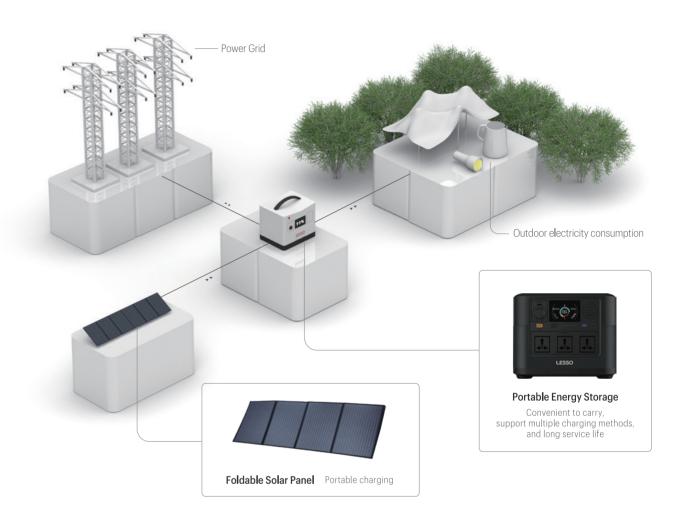
LESSO is committed to building a smart energy ecosystem by building an interconnected energy network, creating mutually beneficial partnerships with other players in the ecosystem, promoting the global goal of "carbon neutrality", creating a clean energy lifestyle for all.

New Energy, New Lifestyle

LESSO Solar focuses on renewable energy generation and storage systems, providing a fully customizable solution, taking into consideration the lifecycle of the entire system, to cater to the various needs of different customers.



LESSO energy storage products are applicable with all kinds of on-board devices, digital devices, small household appliances, refrigerators, unmanned aerial vehicles, game consoles, cameras, etc; It is often used in short distance travel, camping, outdoor photography, live broadcast and other scenarios.



Portable Energy Storage System Solution

This setup is applicable to outdoor power use scenarios such as family excursions, outdoor exploration, outdoor operation, emergency rescue, emergency standby, etc. A simple power supply system can be built outdoors by using LESSO's portable energy storage all-in-one machine. It can be connected to solar panels, power grids or power generators. It consist of a built-in lithium iron phosphate battery, off-grid inverter and energy management system (EMS). The portable energy storage system can use solar pannels, power grid or diesel generator for charging. It has a multi-function power socket and is convenient to use. Maximum 5kW power and 5.12kWh battery capacity can support outdoor long-term power supply.

Advantages

Protable, aesthetic design, user-friendly, easy to carry Built-in lithium iron phosphate battery, multiple software protection settings, safe and reliable The maximum power supply is 5.12 Kwh, and is fully adjustable Power grid or photovoltaic charging are both applicable Portable Energy Storage Four-fold Portable PV Module







			P3	P11	P10	
	Model Number		P3 320W	P11 1200W	P10 1200W	
Battery			298Wh (3.2V / 93120mAh) LiFePO4 Battery	1120Wh (3.2V/350000mAh) LiFePO4 Battery	LFP 32140 1008Wh	
		P3/P11:	wall outlet: DC 12V/5.5A, 65W	wall outlet: DC 250W	wall outlet: 200W/20V	
		DC7909 Port DC 10V~18V P10 : XT60 Plug	car outlet: 12V/5.5A,65W	car outlet: 12V/7.2A, 90W	/	
	Input		solar panel: MPPT 12V~18V	solar panel: MPPT 12V~18V/12.5A (250W) MAX	solar panel: MPPT 200W, 18-22V DC, 10AMax	
Output	USB Output	USB-A	/	/	QC3.0 5V/2.4A 9V/2A 12V/1.5A BC1.2 AFC FCP	
		USB-A*2	5~6.5V/3A 6.5~9V/2A 9~12V/1.5A 18W (QC3.0)	$5 \sim 6.5 \text{V}/3\text{A} 6.5 \sim 9 \text{V}/2\text{A}$ $9 \sim 12 \text{V}/1.5\text{A} 18 \text{W (QC3.0)}$	/	
		USB-B	/	/	5V/2.4A	
		USB-C	5V/3A 9V/3A 12V/3A 15V/3A 20V/3A 60W (PD3.0)	/	/	
		USB-C*2	1	5V/3A 9V/3A 12V/3A 15V/3A 20V/3A 60W (PD3.0)	/	
		TYPE-C1	/	1	PD65W 5V/5A 9V/5A 12V/5A 15V/5A 20V/5A	
		TYPE-C2	/	/	5V/2.4A	
	DC Output	DC5521*2	12.8V/4A (4.5A Max)	12.8V/10A (10.5A Max)	/	
		Car Port	12.8V/10A (10.5A Max)	12.8V/10A (10.5A Max)	121W, 13.5V DC, 9A Max	
	P10: AC Output P3: AC Output*2 P11: AC Output*3	Sine Wave	220V±10V, 50Hz±3Hz 320W Max continuous 640W surge peak	220V±10V, 50Hz±3Hz 1200W Max continuous 2400W surge peak	220V±10V, 50Hz±3Hz 1200W max continuous 2000W surge peak	
LED Light			LED light: half-light / full-light / SOS	LED light: half-light / full-light / SOS	/	
Cycle Life			>2000 times	>2000 times	>2000 times	
Battery Protections Accessories			A. over voltage protection B. low voltage protection C. discharge over current protection D. short circuit protection E. charge over current protection F. temperature protection			
			AC power adapter / car charger / user manuel			
Dimensions (mm)			188*160*200	313*230*206	290*230*220	
Weight (kg)			4.1	11	10.5	
Charging Temperature			1	1	0~40°C	
Working Temperature		erature		/	-10~40°C	



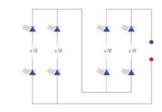


19.8V 120W

PV module dimension specification

Expanded dimension: 1730*520*5mm Folded dimension: 520*370*50mm Product weight: 4.2KG

Working mode of solar panel



Output electrical parameters of PV module

Output power(@STC): 120W±5%

Open circuit voltage(@STC): 24V±5%

Rated operating voltage (@STC): 19.8V±5%

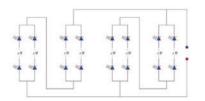
Rated operating current (@STC): 6A±5%

Short circuit current (@STC): 6.3A±5%

Note: STC: Standard Tested Condition: AM=1.5, 25°C, 1000W/m²

19.8V 200W

Expanded dimension: 2360*540*5mm Folded dimension: 530*530*58mm Product weight: 7.9KG



Output power(@STC): 200W±5%

Open circuit voltage(@STC): 24V±5%

Rated operating voltage (@STC): 19.8V±5%

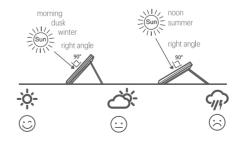
Rated operating current (@STC): 10.1A±5%

Short circuit current (@STC): 10.6A±5%

Note: STC: Standard Tested Condition: AM=1.5, 25 $^{\circ}\text{C}$, 1000W/m²

About using

1.Expand the solar panel to expose it to direct sunlight
2.Connect the electronics or MC4 cable to the solar panel
3.Do not place the solar panel in a cool place or near the fire source

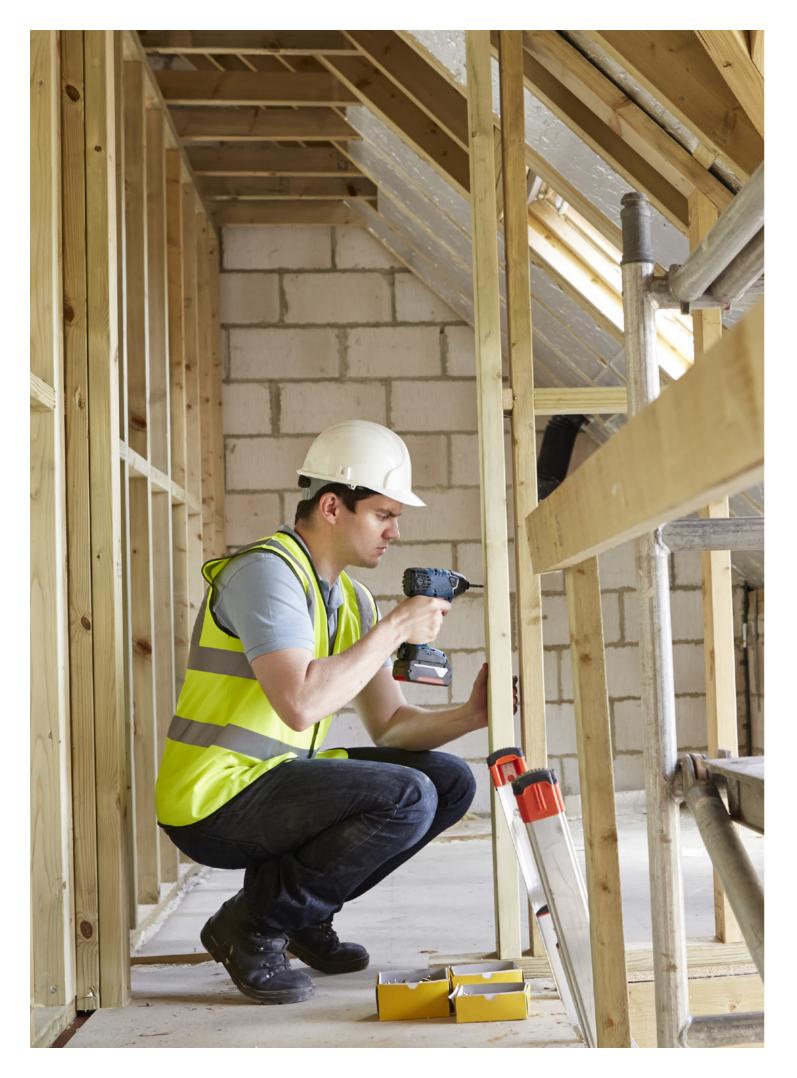


Charging mode

- 1. Expand the panel twice
- 2. Connect the DC cable to the MC4 port on the solar panel
- 3. Connect the other side of the DC cable to the portable power station



Remarks: specifications are subject to change without notice



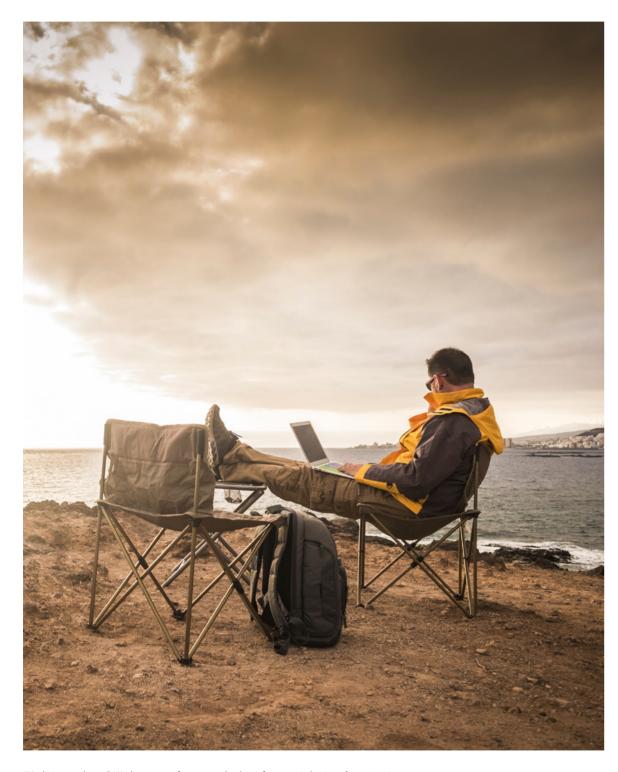




			W30	W50	
	Model Number				
	Battery		high quality lithium ion batteries (50.4V56.1Ah/2827.4Wh)	high quality lithium ion batteries (50.4V107.1Ah/5397.84Wh)	
	Input	25MF four-core aviation power socket	wall outlet: DC 58.8V/9A , 529W	wa ll outlet: DC 58.8V/13A,764W	
	Input	16MF four-core aviation power socket	solar panel: MPPT,360W,36V DC,10A Max	solar panel: MPPT,360W,36V DC,10A Max	
	LICD Output	USB-A	5-6.5V/3A 6.5-9V/2A 9-12V/1.5A18W(QC3.0)	5-6.5V/3A 6.5-9V/2A 9-12V/1.5A18W (QC3.0)	
	USB Output	USB-C	5V/3A 9V/3A 12V/3A 15V/3A 2OV/3A 6OW (PD3.0)	5V/3A 9V/3A 12V/3A 15V/3A 20V/3A 60W (PD3.0)	
Output	DC Output	25MF-4B aviation socket	DC 40V~58.8V/10A Max	DC 40V~58.8V/10A Max	
tuc		16MF-3B three-core aviation socket	DC 24V±5%/10A Max	DC 24V±5%/10A Max	
		Car Port	DC 11V-13V/10A Max	DC 11V~13V/10A Max	
	AC Output	Sine Wave	220V±10%, 50Hz±3Hz 3000W Max continuous 3200W surge peak	220V±10%, 50Hz±3Hz 3000W Max continuous 3200W surge peak	
	Communication	n Protocol	RJ485 communication port	RJ485 communication port	
	LED Light (option	onal)	60W LED light; half-light / full-light / SOS	60W LED light; half-light / full-light / SOS	
	Recharging Ter	mperature	0~45°C	0~45°C	
Operating Temperature			-20~45°C	-20~45°C	
	Cycle Life		>1000 times Cycle70%	>1000 times Cycle70%	
	Battery Protect	ions	A.over voltage protection B.low voltage protection C.discharge over current protection D.short circuit protection E.charge over current protection F.temperature protection		
Accessories			AC power adapter / car charger / user manuel		
	Product Dimer	nsions (mm)	580*460*250	580*460*250	
	Packing Size (mm)	710*610*385	710*610*385	
	Product Weigh	nt (kg)	31.25	44.25	
Packing List			1 x power adapter and power cable 1 x 24V output aviation plug 16MF-3A 1 x 48V output aviation plug 25MF-4A 1 x MC4 to GX16 solar wire 1 x product instruction		

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From the city to the countryside
From commercial to residential
We drive the growth of renewable energy



Working outdoors? We keep your laptop and other electronic devices functioning.



Behind the hustle and bustle of the beautiful night market, a small energy storage battery powers through the night to bring brightness and joy to it's visitors.



Ensure adequate electrical power when you enjoy outdoor activities with friends and family.