

ENERGY SOLAR

Special Solar Panels for Flexible and Portable Energy Solutions

Explore our range of special solar panels, including lightweight folding solar panels and semi-flexible panels for UAVs and vehicles, designed to offer reliable energy in diverse applications.

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Lightweight Folding Solar Panels

The folding solar panels can be tiled on mountains and grasslands or even placed on the roof of a car. They are perfect for replenishing electricity during outdoor activities such as mountaineering and hiking. Additionally, camouflage folding solar panels are available, suitable for occasions requiring optical concealment, such as military equipment, emergency rescue, border defense, and field operations in areas with limited power availability.

- **Camouflage Patterns:** Various camouflage patterns can be selected to achieve optical concealment.
- **High Efficiency:** Efficiency rates up to **22%**.
- **Durability:** Can be folded up to **10,000 times** and maintain functionality.
- **Portability:** Easy to carry, with a power-to-weight ratio up to **120W/kg**.

Semi-Flexible Solar Panels for UAV/Vehicle

These semi-flexible solar panels are designed for use in unmanned aerial vehicles, airships, or car roofs. Their flexibility and lightweight features make them suitable for curved surfaces and improve endurance in challenging applications.

- **Power Density: 0.3W/g**, integrated packaging materials for ultra-flexibility.
- **Wind Resistance:** Special cloth packing enhances surface smoothness, improving resistance against wind influence.
- **Customization Available:** Panels can be customized as per specific requirements.

Parameters

Model	MLT100	MLT40	MLT125	MLT150
Type	folding	folding	folding	Semi-flexible
Camouflage Color	——	backside	Both sides	——
Pmax	100W	40W	125W	150W
Vmp	18V	22V	22V	56V
Imp	5.5A	1.75A	5.78A	2.68A
Voc	21.6V	26V	26V	67V
Isc	5.8A	1.89A	6.61A	2.8A
Waterproof	IP65	IP68	IP68	IP68
Operating Temperature	-40°C~+85°C	-40°C~+85°C	-40°C~+85°C	-40°C~+85°C
Unfolded Dimension (LWH)	15905253 mm	12002901.5 mm	18005205 mm	10807802 mm
Folding Dimension (LWH)	52536015 mm	29017022 mm	52042020 mm	——
Weight (kg)	<4	<0.48	<2	<0.53

For more information about our special solar panels and to discuss customization options to meet your specific needs, please [contact us](#).