

LOOM SOLAR



SOLAR PANEL

PRODUCT CATALOGUE



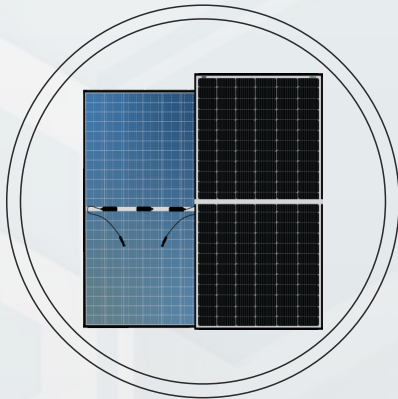
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ABOUT SOLAR PANEL

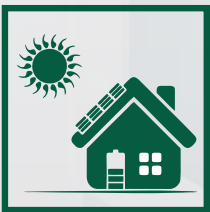
Loom Solar is a manufacturer of Solar Panels from 10 Watt to 440/530 watts in different technology such as Mono Perc Bifacial . It has a manufacturing capacity of 100 MW Solar Panels based out of Sonipat haryana.



Solar Panel

10 W - 440/530 W

Applications



Home Solar
System



Street Light



Battery Charging

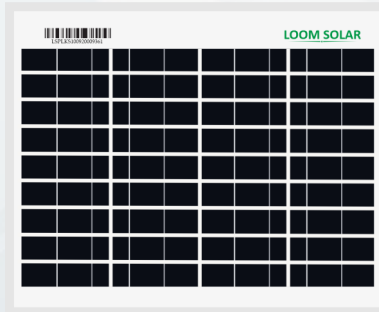


Water Pumping

ABOUT SOLAR PANEL

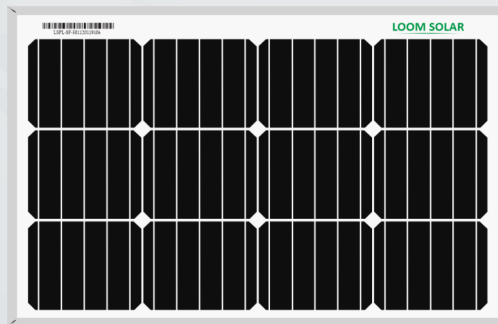
Types of Solar Panel

➤ Poly Solar Panel



Polycrystalline solar panels are also known as poly solar panels, multi-crystalline or many-crystal silicon panels. Because there are many crystals in each cell. These panels are made of silicon. To make the cells of a polycrystalline panel, fragments of silicon are melted together to form the wafers. Polycrystalline solar panels have a blue hue on their surface. In this type of solar panel, there is less space left for electrons to move around. In the outer structure of these panels, cells are square and the angles are uncut.

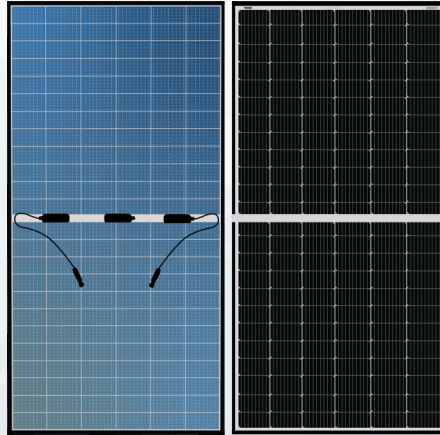
➤ Mono Perc Solar Panel



Mono-perc solar panels are slightly different from the standard monocrystalline panels. PERC stands for Passivated Emitter & Rear Cell, a modern technology used to increase the efficiency of standard solar modules. This is done by adding a passivated layer in the rear of the cell. In Mono-perc modules, the same passivated layer is added in the back (rear) side of the solar cells.

ABOUT SOLAR PANEL

➤ Bi-Facial Solar Panel



A bifacial solar panel is a double-sided energy factory that transforms sunlight into electrical energy on both its top and bottom sides. They are different from monofacial solar panels which only use one side for solar energy production. The word bifacial comes from the prefix “bi-” (meaning two), and “facial” (for face). Bifacials are equipped with solar cells on both the top and the rear of the panel. They are usually monocrystalline, although polycrystalline can be used. Because they are slim, they resemble thin-film panels. Bifacial solar panels are frequently frameless, too. The top of each solar module is covered in protective glass. The flipside may be glass or a clear backsheet. This is different from conventional solar panel systems with opaque backings.



Select By Voltage

12V Battery

24V / 48V Battery



Panel Wattage

10W - 40W

50W - 75W

125W - 190W

395W - 440/530W

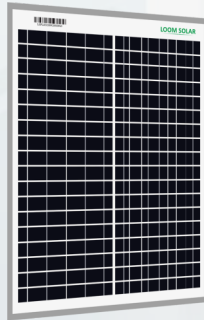
Poly-Crystalline Panel

Mini Solar Panel

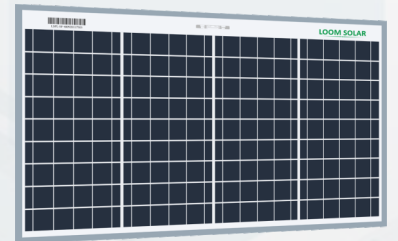
10 watt



20 watt



40 watt



Application use -



Automation

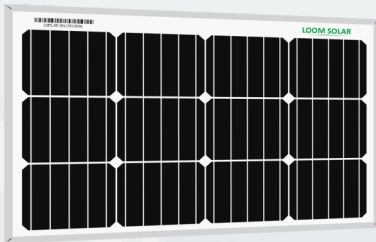
Technical Specification

Panel	10 watt	20 watt	40 watt
Wattage (Wp)	10	20	40
Voltage at max. power v_{mp} (v)	16.85	18.20	19.25
Current at max. power i_{mp} (a)	0.59	1.10	2.08
Open circuit voltage, VOC (v)	20.9	22.40	22.50
Short circuit Current, i_{sc} (a)	0.65	1.45	2.22
Number of cells	36	36	36
Weight	1 kg	1.70 kg	3.66 kg
Dimension (L*W*H)	225*350*17 mm	435*350*17 mm	430*670*35 mm

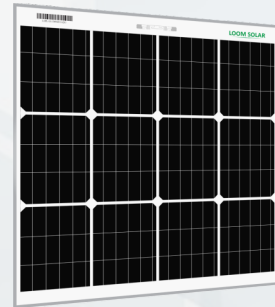
Mono - Perc Panel

Small Commercial Use Solar Panel

50 watt



75 watt



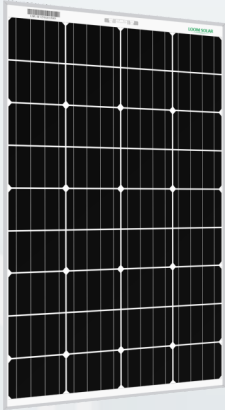
Technical Specification

Panel	50 watt	75 watt
Wattage (Wp)	50	75
Voltage at max. power vmp (v)	20.00	20.00
Current at max. power imp (a)	2.25	3.75
Open circuit voltage, VOC (v)	25.36	22.5
Short circuit Current, isc (a)	2.40	4.52
Number of cells	36	36
Weight	3.66 kg	4.90 kg
Dimension (L*W*H)	430*670*35 mm	605*670*35mm

Mono - Perc Panel

12 Volt Battery Charging Solar Panel

125 watt



190 watt



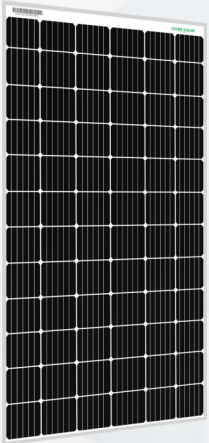
Technical Specification

Panel	125 watt	190 watt
Wattage (Wp)	125	190
Voltage at max. power vmp (v)	20.4	20.00
Current at max. power imp (a)	6.13	9.50
Open circuit voltage, VOC (v)	23.8	25.00
Short circuit Current, isc (a)	6.45	9.80
Number of cells	36	36
Weight	7.90 kg	11.46 kg
Dimension (L*W*H)	1020*670*35 mm	1495*670*35 mm

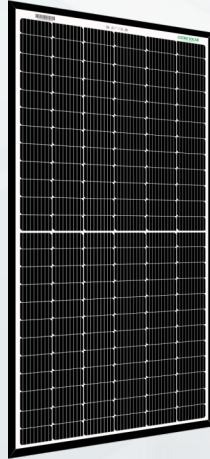
Mono - Perc Panel

Residential Solar Panel

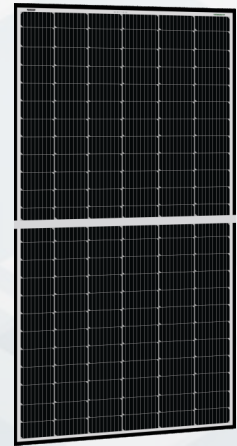
395 watt



Shark 440



Shark 440/530



Technical Specification

Panel	395 watt	440 watt	440-530 watt
Wattage (Wp)	395	440	440-530
Voltage at max. power vmp (v)	39.00	42.00	42.00
Current at max. power imp (a)	9.75	10.5	10.5
Open circuit voltage, VOC (v)	44.50	50	50
Short circuit Current, isc (a)	9.90	11	11
Number of cells	72	144	144
Weight	19.74 kg	25 kg	25 kg
Dimension (L*W*H)	1985*1000*35 mm	2131*1047*40 mm	2131*1047*47 mm



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