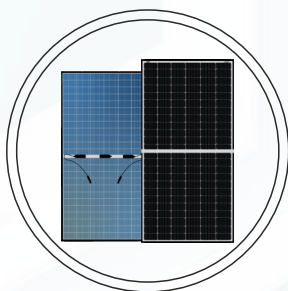


PRODUCT CATALOGUE

(2021)

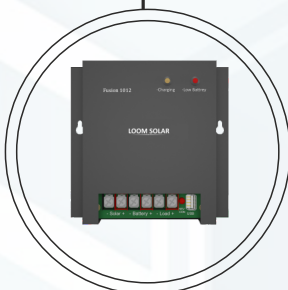


Solar Panel

10 W - 440/530 W

Lithium Battery

75 Wh - 5,000 Wh

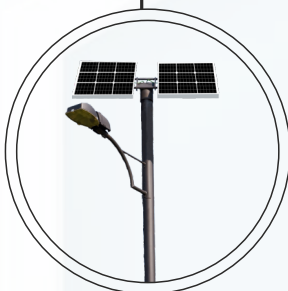


Solar Charge Controller

10 amp - 20 amp

Solar Wire

4 - 10 sq. mm.

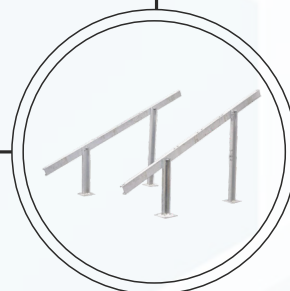


Solar Street Light

12 - 30 Watt

Solar Structure

1 - 50 Panel



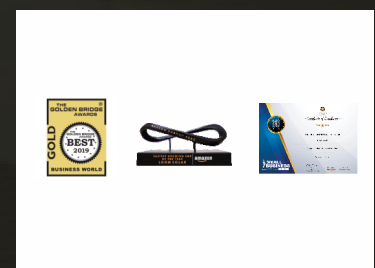
- Started in 2018 at Faridabad, Haryana
- Winner Of Fastest Growing SMB - Amazon Sambhav Energy Business of the year, 2021
- India's No.1 Manufacturer of Mono Perc Solar Panel and Lithium Batteries
- In House Research And Development



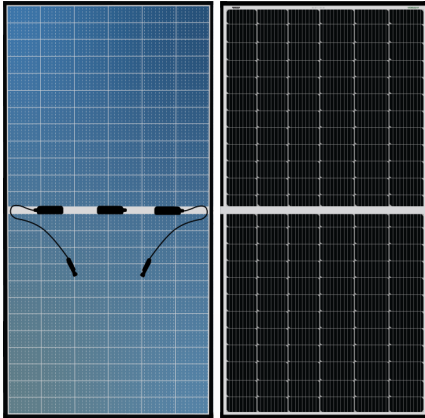
Office



Corporate Customers



Awards



Loom Solar is a manufacturer of Solar Panel from 10W - 440/530 Watt in different technology such as Mono Perc , Bi-Facial. Our Panel are suited for Home Rooftop and Agricultural applications.



5 Year Replacement
Warranty



25 Year Performance
Warranty

MODULE

Model Name	10 Watt	20 Watt	40 Watt	50 Watt	75 Watt	125 Watt	190 Watt	390 Watt	SHARK	SHARK Bifacial
Power (pm) in Watts (Nominal)	10	20	40	50	75	125	190	390	440	440
No. of Cells	40	38	36	36	36	36	36	72	144	144
Rated Module Voltage	12	12	12	12	12	12	12	24	24	24
Voltage at Maximum Power (Vmp) in Volts	19.25	19.25	19.25	20	20	20	19.85	40	42	42
Current at Maximum Power (Imp) in Amps	0.52	1.04	2.08	2.51	3.75	6.25	9.58	9.75	10.5	10.5
Open Circuit Voltage (Voc) in Volts	22.5	22.5	22.5	22.5	22.7	22.5	24.66	45	50	50
Short Circuit Current (Isc) in Amps	0.55	1.11	2.22	2.65	4.40	6.45	9.81	10	11	11
Maximum System Voltage (Vdc)	600	600	600	600	600	600	600	1500	1500	1500
Module Efficiency η (%)	13%	14%	16.50%	18.19%	16.43%	16.93%	19.5%	19.8%	20%	22%

STC: Irradiance 1000W/M², Ambient Temperature 25°C, Air Mass 1.5, Measuring Tolerance \pm 3%

MECHANICAL DATA

Junction Box	Ip65 rated	IP65 rated with Bypass diodes	IP67 / IP68 rated with 3 Bypass diodes								
Application Class	Class A (Safety Class II)										
Glass	High Transmission Low Iron Tempered Solar Glass										
Cells	Poly Crystalline Solar Cells [10, 20, 40 Watt] /Mono Perc Solar Cells										
Cell Encapsulate	Ethylene Vinyl Acetate (EVA) - FC/UFC										
Back sheet	Composite Film - White										
Frame	Silver Anodized Aluminium Frame with Twin Wall Profile										
Mechanical Load Test	Sustain Heavy Wind & Snow Loads (2400 Pa & 5400 Pa or 550 Kg/m2)										
Max Series Fuse Rating	6A	6A	10A	10A	10A	15A	15A	15A	20A	20A	
Module Weight (Kg)	1 kg	1.70 kg	3.66 kg	3.66 kg	4.90 kg	7.90 kg	11.46 kg	19.74 kg	25 kg	25 kg	
Dimension in (mm)	L	225	435	430	430	605	1020	1495	1985	2131	2131
	W	350	350	670	670	670	670	670	1000	1047	1047
	H	17	17	35	35	35	35	35	35	40	40

WARRANTY & CERTIFICATION

Performance Warranty*	25 Years (90% module efficiency after 10 years, 80% module efficiency after 25 years)
Certificates	IS:14286, IS-61215, IS-61730

*Refer solar module warranty card document

Technical Parameters are subject to change without any prior notice



ATOM Batteries are Powered by Lithium cells. It is potable multipurpose long life and higher Back Up batteries. It is replacement of traditional lead acid batteries used in Home inverters, street lights and portable machines.



Multipurpose



Portable

LITHIUM BATTERY

Model Name	Nominal Voltage (V)	Capacity @ C5 (Ah)	Capacity (Wh)	Battery Weight (Kg)	Overall Dimension			Free Replacement (Months)	BMS (Amp.)
					Length \pm 3 mm	width \pm 3 mm	Height \pm 3 mm		
ATOM 612	12	6	75				36		
ATOM 1212	12	12	150				36		
ATOM 2012	12	20	250				36		
ATOM 3012	12	30	385				36		
ATOM 4012	12	40	500				36		
ATOM 8012	12	80	1,000				36		
ATOM 8024	12	80	2,000				36		

Applications

- Home Lighting System
- Electric Vehicle
- Potable Machines
- Home Inverters



Solar panel are the source of direct current (dc). It is strongly advisable to use dc wire for connecting solar panels with inverter or charge controller. It increases efficiency and works in outdoor condition as it is UV protected.

TECHNICAL DATA

Solar DC Cables from PV Module to Array Junction Box (as per TUV Specification- EN 50618 : 2014)

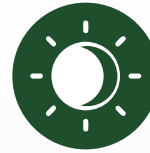
Single Core In Sq. mm.	E-BEAM XLPO Insulation thickness- Nominal in mm.	E-BEAM XLPO Sheath thickness- Nominal in mm.	Overall Diameter in mm.	Tolerance on diameter	Tinned Copper maximum Resistance @20°C (ohms-Ω/Km)	Current Carrying capacity (Single Cable In Air) (In Amps - A)
4	0.7	0.8	4.8	+/- 0.4	13.70	30
6	0.7	0.8	5.2	+/- 0.4	8.210	41
10	0.7	0.8	6.4	+/- 0.4	3.390	70



Loom Solar Charge Controller is an advanced micro controller unit based on PWM technology. The charging process has been optimized for longer battery life and improved system efficiency.



1 Years Product Warranty



Dusk to Dawn

SOLAR CHARGE CONTROLLER

Model Name	FUSION 1024	FUSION 2024	FUSION 1012
Charge Controller Rating (Amp.)	10 amp.	20 amp.	10 amp.
Technology	Micro Controller Unit Based PWM		
System Voltage	12 / 24 V		12.8 V
Setting	Auto Sensing		Lithium Battery
Maximum Solar Panel (Wp)	12V @ 190W 24V @ 440W	12V @ 380W 24V @ 880W	12.8V @ 440W
Maximum Solar Panel Voltage	60V	60V	60V

BATTERY SETTINGS

Voltage	12V	24V	12.8V
Bulk Voltage (V)	14.2V	28.4	14.6
Default Voltage (Bulk)			
Float Voltage (V)	13.5	27V	12.8V
Default Voltage (Float)			
Low Battery (V)	10.5V ± 0.2V	21.0V ± 0.2V	9.9V ± 0.2V

PROTECTIONS & USER INTERFACE

PROTECTIONS	• Solar Battery Reserved Protection
	• Reserve Current From Battery at night (blocking diode)
	• No loads auto cut off (Battery saver mode)
	• Miswiring / Reverse Polarity Protection (Fuse)
	• Transient / Surge
	• Over Charging
	• Deep Discharge
	• Overload-Auto Shutdown And Restart
LED INDICATION	• Yellow LED Steady - Solar Available and charging the LED
	• Yellow LED Blinking - Battery is fully charged
	• Red LED steady - Battery Low
	• Red LED Blinking - Fault

GENERAL

Operating Temperature	0°C to 50°C		
Dimensions (LxWxH) MM	112 x 125 x 25	125 x 100 x 45	264 x 183 x 90
Net Weight (Kg)	0.32	0.45	1.48

Technical Parameters are subject to change without any prior notice



Solar Street Light is completely an off - grid solution. It is made up of Solar Panels, Lithium batteries and lights. It is a semi - integrated products having lights and battery as me unit and solar panel as another unit.



2 Years Product
Warranty



Dimming
Light

TECHNICAL SPECIFICATION

Model	12 Watt	20 Watt	30 Watt
Output Power	12 Watt	20 Watt	30 Watt
Battery Capacity	12 AH	20 AH	30 AH
Battery Technology	Lithium Phosphate	Lithium Phosphate	Lithium Phosphate
Controller Technology	MPPT	MPPT	MPPT
Panel Wattage	50 Watt	75 Watt	125 Watt
Panel Technology	Mono Perc	Mono Perc	Mono Perc
Dimming Features	Yes	Yes	Yes
Dust To Down Feature	Yes	Yes	Yes
Pole Length	6 Meter	6 Meter	6 Meter
Pole Accessories	Base Plate J-ROD	Base Plate J-ROD	Base Plate J-ROD
LED Make	Samsung	Samsung	Samsung
Protection	Over Charge Deep Discharge	Over Charge Deep Discharge	Over Charge Deep Discharge
Price	₹ 15,000	₹ 17,500	₹ 20,000



Solar Panels are install for 25 years life. So, Solar Panel must with stand this long life. Loom Solar Manufacture Solar Panel Stand from Galvanized iron which will be Rust Free.



Water Pump



Rooftop



Wall Mounted



Tin Shed



High Rise

LOOM SOLAR

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Faridabad, Haryana - 121003 (INDIA)

Factory/Warehouse:

Plot No. 21/1, Mathura Road, Faridabad,
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