

5th
LOOM SOLAR
Years

| 350KW

| 100KW

| 140KW

Product Catalogue

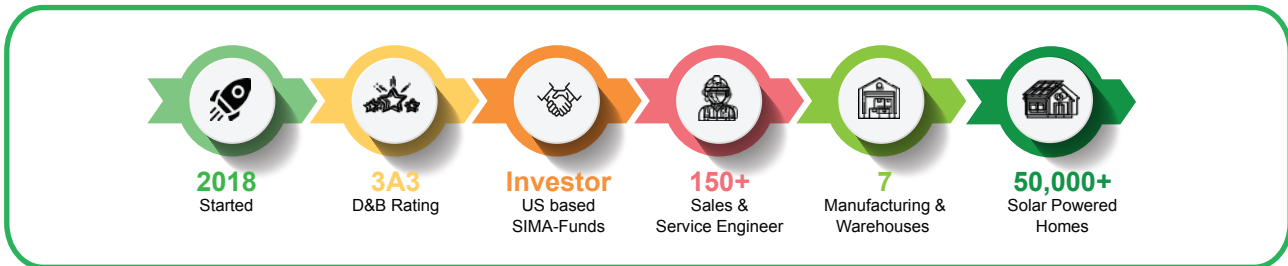


About Us

Loom Solar is a start-up, a manufacturer of solar panels and Lithium batteries based out of Faridabad, Haryana. It is an ISO 9001 - 2015 certified company and recognized startup by Govt. of India.



Our Credentials



Corporate Customers



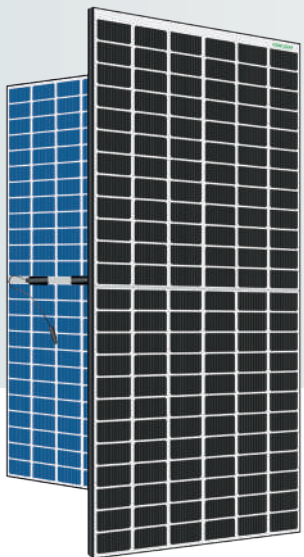
Awards



Certifications



Product Range



Solar Panel

10 W - 575W

Lithium Battery

5 KWh-50KWh



On Grid Inverter

3 KW - 100 KW



SOLAR PV MODULE
(DCR/NON-DCR)
144 HALF CUT
MONO PERC CELL
RANGE - 10W TO 575W

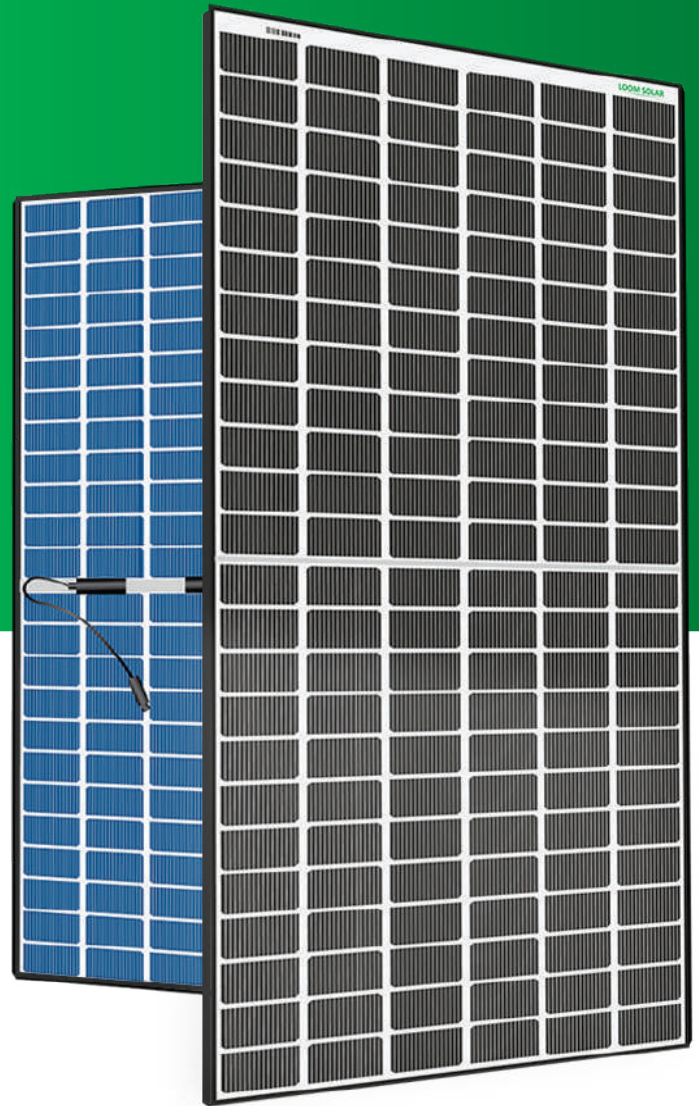
High Performance Guarantee!



years
performance
warranty



Multi Bus Bar



Leading Features



Ideal For Solar Rooftop Installations



High Power



Better Shading Tolerance



Lower Lcoe & System Cost



Excellent Temperature Performance

Increased Shade Tolerance

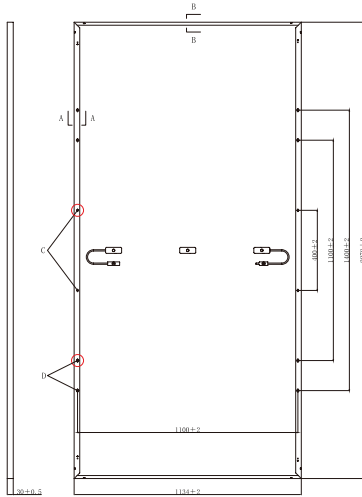
HALF-CUT MODULE

Functions like two parallel modules, enabling the half-cell string to work in partial shading



Solar PV Module

144 Half Cut Mono Perc Cell



A Long Frame

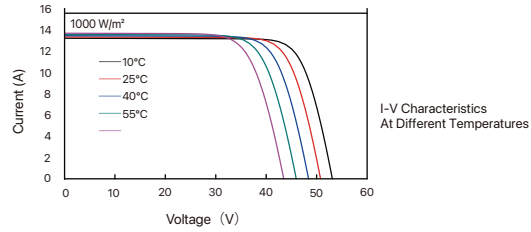


B Short Frame



D Mounting Hole

I-V Curves of PV Module



I-V Characteristics At Different Temperatures

Mounting Hole

Model Name	SHARK 10	SHARK 20	SHARK 55	SHARK 225	SHARK 455	SHARK 455 Bifacial	SHARK 550	SHARK 550 Bifacial	SHARK 575 Bifacial
Power (Pm) in watts	10	20	55	225	455	455	550	550	575
No. of cell	36	36	36	72	144	144	144	144	144
No. of Bus Bar	2	2	9	9	9	9	10	10	16
Voltage at Maximum Power (Vmp) in Volts	19.25	19.25	21.00	21.00	42.30	42.30	42.74	42.40	43.00
Current at Maximum Power (Imp) in Amps	0.52	1.04	2.62	10.72	10.76	10.80	12.89	12.98	13.38
Open Circuit Voltage (Voc) in volts	22.50	22.50	24.50	25.00	49.50	49.50	49.60	50.20	50.50
Short Circuit Current (Isc) in Amps	0.58	1.11	2.83	11.45	11.50	11.55	13.72	13.82	14.30
Maximum system Voltage (VDC)	600	600	1000	1000	1500	1500	1500	1500	1500
Module Efficiency (%)	14%	14.20%	18%	20.4%	20.95%	21.00%	21.35%	21.40%	22.30%

STC: Irradiance 1000W/m², Ambient Temperature 25°C, Air mass 1.5, Measuring Tolerance+3%

MECHANICAL DATA

Junction Box	Ip65 & above with Diodes			IP68 Rated with Diodes						
Glass	High Transmission Low Iron Tempered Solar Glass									
Cells Encapsulate	Ethylene Vinyl Acetate (EVA) - FC/UFC									
Back sheet	Composite Film - White									
Frame	Black / Silver Anodized Aluminium Frame with Twin Wall Profile									
Mechanical Load Test	Sustain Heavy Wind & Snow Loads (2400 Pa & 5400 Pa or 550Kg /m2)									
Max Series Fuse Rating	6A	6A	10A	15A	25 A	25 A	30A	30A	30A	
Module Weight (Kg)	1 kg	2 kg	4 kg	14 kg	25 kg	28 kg	29 kg	32 kg	32 kg	
Technology	Poly Crystalline			Mono PERC					TOPCon	
Annual Electricity Generation(kWh)	25	45	115	475	950	955	1160	1165	1210	

Dimension in (mm)	L	350	435	440	1590	2094	2094	2278	2278	2278
	W	225	350	700	700	1038	1038	1133	1134	1134
	H	22	22	30	30	35	30	35	30	30
Mounting Holes	X Pitch	225	322	670	670	989	998	1084	1095	1095
	Y Pitch	182	288	205 & 300	800 & 1176	1176 & 1600	1176 & 1676	400 & 1100	1176	1100 & 1400

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.



HIGH VOLTAGE BATTERY 5 kWh (48 - 500 Volt)



FAST CHARGING
50% in just 30 min.



LONG LIFE
3000-6000*life cycles.



NO MAINTENANCE
It is maintenance free



Expansion
Upto 9 batteries in parallel or series



IP56
Fire, dust & waterproof



BMS
Compatible with 90%
hybrid Inverter



Technical Specification

Model	CAML10048-LV	CAML10051-WM	CAML10051-IP	CAML10051-HV
Battery capacity	5 kWh	5.12 kWh	5.12 kWh	10.24 kWh
Battery rating	100 Ah / 48 V	100 Ah / 51.2 V	100 Ah / 51.2 V	100 Ah / 102.4 V
No. of Cells	15	16		32
Technology	Solid state LiFePo4			
Expansion	Parallel Upto 9 Units			Series Upto 9 Units
Cycle Life	3000	6000		
Charging Current	50 A	100 A		
Discharging Current	100 A			
Efficiency	90%	95%		

Mechanical Data

Design	Rack Mount	Wall Mount		Stackable	
Display	LED	LCD Screen to check Cell Voltage, Current and Temperature			
Weight (kg)	45 kg	50 kg	48 kg	105 kg	
Dimension (mm)	L	439	446	580	680
	W	400	534	460	535
	H	222	135	172	420

Warranty & Certification

Standard Warranty	5 years, expandable upto 10 years.
Certificate	UN 38.3

Product Applications

CAML focuses on Lithium iron phosphate (LiFePo4) Technology, The main application is as follows:

Energy Storage

Solar, wind storage system, on/off-grid energy storage for Business and household

Back-up System and UPS, Telecom base, CCTV system, Computer server center, Medical instrument, Military Equipment

Other Applications

Security and electronics , LED light , Emergency light, RV Motorhome, Golf carts battery, Boat Marine Yachts , Electric Skateboard, LED Backup,

Engine starting battery.

FUSION On Grid Inverter

FOR RESIDENTIAL & COMMERCIAL ROOFTOP SOLAR

Single phase

FUSION 31 , FUSION 41 , FUSION 51

Three phase

FUSION 53, FUSION 63, FUSION 83, FUSION 103
FUSION 123, FUSION 153, FUSION 203, FUSION 253
FUSION 503, FUSION 803, FUSION 1003



Leading Features



Superior Efficiency

Maximum efficiency 98.3%
Maximum String Current , compatible with 600W+ modules
150% PV configuration, 110% output overload

High Reliability

Die-cast aluminum case, IP66 waterproof and dustproof, C5 anti corrosion
DC / AC surge protections.
Compatible with wide power grid voltage and high harmonic power grid environment

Intelligent Maintenance

App quick commissioning
Remote configuration and upgrade
Supports export control

Technical Specification

Output Power(kW)	3 KW	4 KW	5 KW	5 KW	6 KW	8 KW	10 KW	12 KW	15 KW	20 KW	25 KW	40 KW	50 KW	80 KW	100 KW
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Input Side (DC)

Max. DC Input Power (kW)	3	4	5	5	6	8	10	12	15	20	25	40	50	80	100	
Operating Phase	Single Phase			Three Phase												
MPPT Input Current (A)	20 A									26 A		40 A				
MPPT Operating Voltage (V)	100-500 V			120-850 V				250-850 V								
No. of MPPT Tracker	1		2									3	4		6	
Short Circuit Current (A)	23 A		27 A		30 A						40 A		60 A			

Output Side (AC)

Output Power (kW)	3	4	5	5	6	8	10	12	15	20	25	40	50	80	100
Operating Grid Voltage (V)	140 V - 290 V			320 V - 480 V											
Rated Grid Voltage (V)	230 V			415 V											
Nominal Grid freq. (Hz)										50 Hz					
AC Connection (with PE)	L + N + E			3L + N + E											
THD(%)										< 3%					
Output Power Factor (%)										>99.99%					

Efficiency

Max. Conversion eff.(%)	97.5%			98%											
Max. MPPT Efficiency (%)										>99%					

Mechanical Data

Weight (Kg)	7		13	15				28			55	55	60	80	
Dimension (LXHXW) mm	330x348x127		330x348x179	385 x 479 x 184				455 x 573 x 265					700 x 684 x 307		

General Data

Operating temperature	-25°~65°C														
Display	Graphical - LED with LCD Display														
DC / AC Connectors (IP-65)	MC-4/ AC power connector														
Communication Interface	Wifi / GPRS / RS 485 / RS 232 / ETHERNET LAN														

Warranty and Certifications

Standard Warranty	5 Years														
Certiactes	IEC Equivalent BIS Standard: IS 61683, IS 16221, IEC 60068, IEC 61000														

Please implement following to get warranty

- 1) Total 3 Earthing is mandatory- (i) ACDB (ii) DCDB (iii) Lightning arrester.
- 2) Neutral to Earth voltage should be less than 5 Volt.
- 3) Phase Imbalancing / Hazard due to Grid is not covered under the warranty.
- 4) Standard Warranty: Only if warranty is registered using QR Code.
- 5) Extended warranty is applicable only if customer opt for physical verification to verify the installation guidelines.



To log a complaint or register the warranty scan the QR-code.

LOOM SOLAR

INDIA'S

No.1

SOLAR COMPANY

WIDEST RANGE
of solar products



SCAN HERE

Loom Solar Pvt Ltd.

Plot No. 14/6, Mathura Road, Sector -27B
Faridabad, Haryana -121003 india

☎ :- +91 8750 778 800 ✉ :- sales@loomsolar.com

🌐 :- www.loomsolar.com