

Loom

India's No.1 Solar Company



#ApnaGharApniBijli

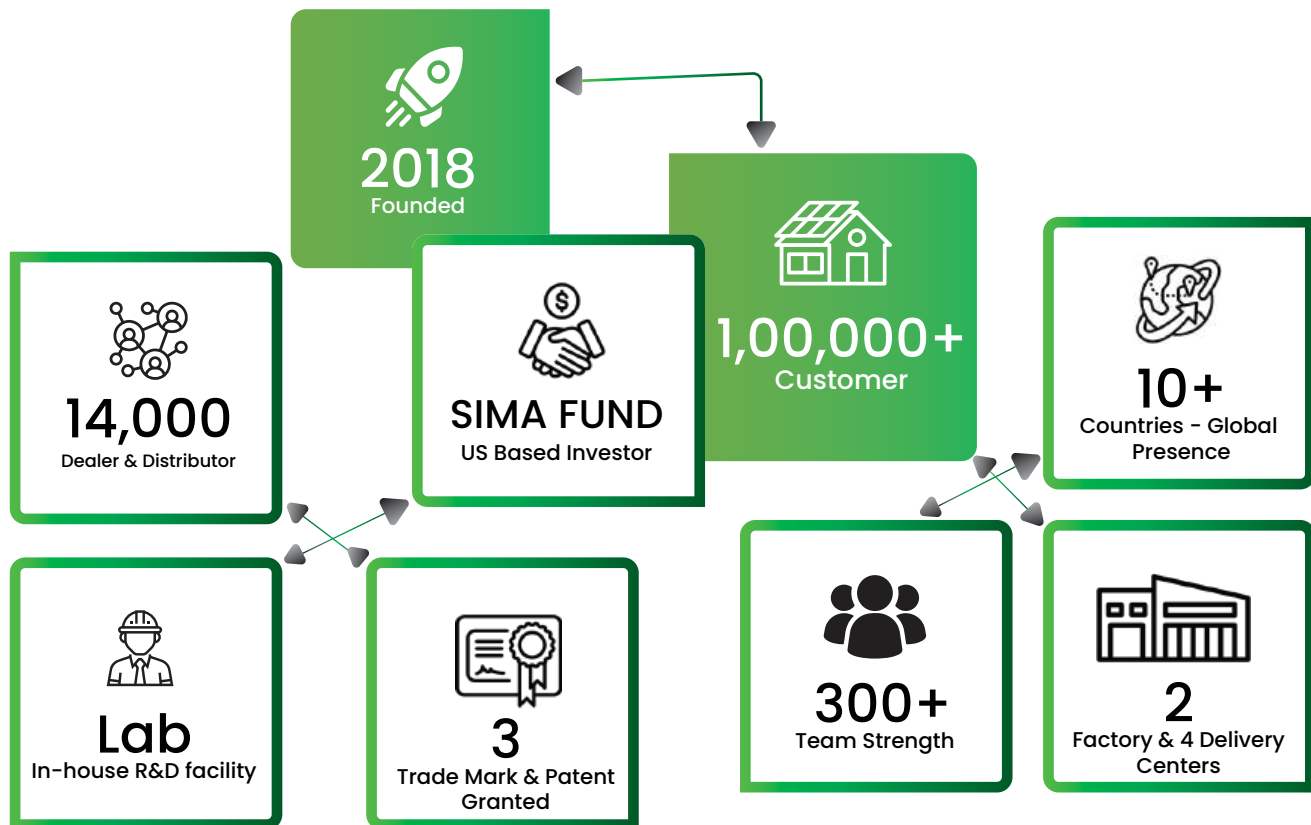
Product Catalogue

About Us

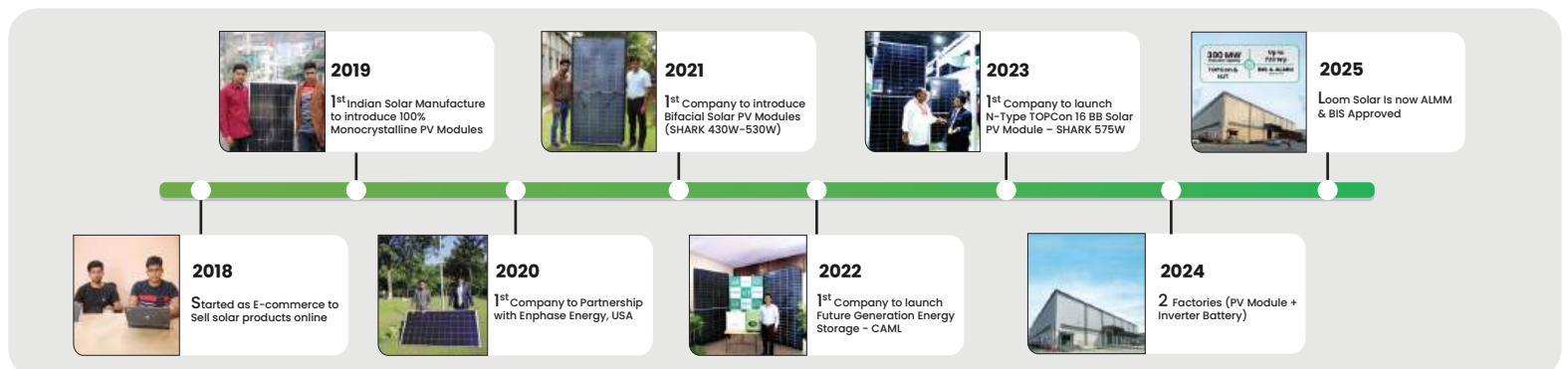
Loom Solar is a leading manufacturer of Solar Power Generating Systems / Parts, founded in 2018 by two brothers Amol and Amod Anand. With continuous research and development effort of our team of **300+** highly skilled individuals, we manufacture the cutting edge solar products including solar panel, battery and inverter in India and sell them globally to more than **10** countries through a vast network of **14,000+** dealers and have over **1,00,000** satisfied customers.



Our Capability



Our Journey...



Our Manufacturing Facility



Operating with 2 manufacturing facilities, 4 delivery centers spread over 1,00,000 sq. feet, In-house R&D Facility, and a team of 300+ people

Certifications



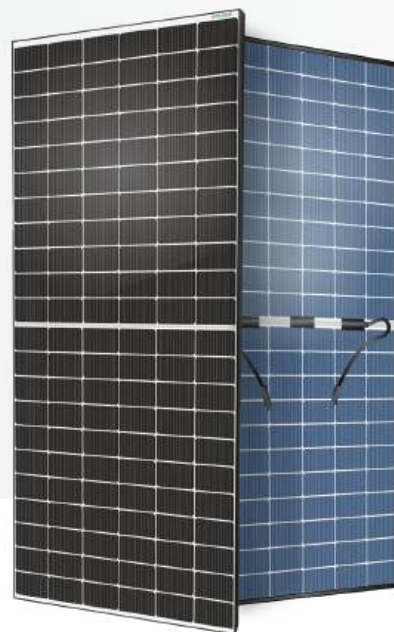
Expo Presence



Product Range

Solar Panel

10 Wp - 730 Wp



Storage Battery

1 kWh - 100 kWh

PV Inverter

3 kW - 100 kW





SOLAR PV MODULE (DCR/NON-DCR)

TOPCon & HJT
RANGE - 20 Wp TO 730 Wp

High Performance Guarantee!



30 years
performance
warranty



Up to 24 Busbars



SHARK 730 Wp

Leading Features



Ideal for Large-scale Power Plant, C&I, Household
And Energy Storage Solutions



High Power



Better Shading Tolerance



Lower Lcoe & System Cost



Excellent Temperature Performance



Black Anodized Aluminum Frame

Increased Shade Tolerance

HALF-CUT MODULE

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





Applications



Technical Specifications

Model Name	SHARK 20	SHARK 225	SHARK 275	SHARK 550	SHARK 550 Bifacial	SHARK 590 Bifacial	SHARK 600 Bifacial	SHARK 650 BC	SHARK 685 Bifacial	SHARK 730 HJT
Power (Pm) in watts	20	225	275	550	550	590	600	650	685	730
No. of Cells	36	72	72	144	144	144	144	144	132	132
No. of Bus Bar	2	9	10	10	10	16	16	0	12	24
Voltage at Maximum Power (Vmp) in Volts	19.25	21.00	21.50	42.74	42.40	43.50	44.78	46.92	39.0	43.00
Current at Maximum Power (Imp) in Amps	1.04	10.72	12.80	12.89	12.98	13.57	13.41	13.87	17.57	16.98
Open Circuit Voltage (Voc) in volts	22.50	25.00	25.00	49.60	50.20	51.00	51.91	53.28	46.5	51.00
Short Circuit Current (Isc) in Amps	1.11	13.70	13.45	13.72	13.82	14.45	14.13	14.92	18.60	17.80
Maximum System Voltage (VDC)	600	1000	1000	1500	1500	1500	1500	1500	1500	1500
Module Efficiency (%)	14.20%	20.65%	20.4%	21.35%	21.40%	22.80%	22.23%	24.2%	22.0%	23.5%

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									
Backsheet	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 550 Kg /m2)									
Max Series Fuse Rating	6 A	15 A	15 A	30 A	30 A	30 A	30 A	30 A	35 A	35 A
Module Weight (kg)	2 kg	14 kg	14 kg	29 kg	32 kg	32 kg	28 kg	30 kg	37 kg	38.3 kg
Technology	Poly Crystalline	Mono PERC				TOPCon			Mono PERC	HJT
Annual Electricty Generation(kWh)	45	475	550	1160	1165	1210	1240	1288	1314	1410

Dimension (mm)	L		435	1590	1740	2278	2278	2278	2384	2384	2384
	W		350	700	770	1133	1134	1134	1134	1303	1303
	H		22	30	30	35	30	30	30	35	33
Mounting Holes	X Pitch		322	670	680	1084	1095	1095	1095	1261	1261
	Y Pitch		288	800 & 1176	800 & 1176	400 & 1100	1176	1100 & 1400	1100 & 1400	790 & 1400	790 & 1400

Warranty & Certification

Performance Warranty *	30 Years (90% module efficiency after 10 Years, 80% module efficiency after 30 Years)
Certificates	IS:14286, IS-61215, IS-61730

*Refer solar module warranty card document

*Technical Parameters are subject to change without any prior information



ENERGY STORAGE BATTERY

1 kWh – 100 kWh



FAST CHARGING

50% In just 30 minutes



LONG LIFE

3000–6000* Life cycles



NO MAINTENANCE

It is maintenance free



Expansion

Up to 9 batteries in parallel or series



IP65

Fire, dust & waterproof



BMS

Compatible with 90% hybrid inverter

Child Safe Battery is here!





Applications



Smart Home



Office



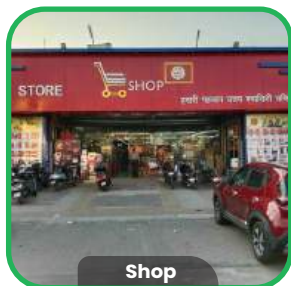
Hospital



School



Restaurant



Shop



Bank



Mall

Technical Specifications

Model	CAML10051-RM	CAML10051-WM	CAML10048-RM	CAML10051-ST	CAML 10012	CAML10025 -WM
Battery Capacity	5.12 kWh	5.12 kWh	5 kWh	5.12 kWh	1.2 kWh	2.5 kWh
Battery Rating	100 Ah / 51.2 V	100 Ah / 51.2 V	100 Ah / 48 V	100 Ah / 51.2 V	100 Ah / 12.8 V	100 Ah / 25.6 V
No. of Cells	16		15	16	4	8
Technology	Solid state LiFePo4					
Expansion	Parallel Upto 8 Units		Parallel Upto 6 Units	Parallel Upto 16 Units	N/A	Parallel Upto 9 Units
Cycle Life	≥6000		≥3000	≥6000		
Charging Current	50 A					
Discharging Current	100 A					
Efficiency	95%					

Mechanical Data

Design		Rack Mount	Wall Mount	Rack Mount	Stackable	Standalone	Wall Mount
Display		LCD Screen to check Cell , Current and Temperature					
Weight (kg)		47 kg	47 kg	42 kg	48.5 kg	10.5 kg	27 kg
Dimension (mm)	W	482	442	445	610	280	320
	H	133.5	500	133.5	250	210	450
	D	460	142	455	225	177	167.5

Warranty & Certification

Standard Warranty	5 years, (Expandable upto 10 years)*	
Certificate	UN 38.3	

Supported Inverters





ON-GRID PV INVERTER

Single-Phase

3 kW - 5 kW

Three-Phase

6 kW - 100 kW



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



Applications



Home



Business



Factory

Technical Specifications

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	30 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	30	40	50	80	100	
Operating Phase	Single-Phase			Three-Phase													
MPPT Input I/P Current (A)	20 A										26 A		40 A				
MPPT Operating Voltage (V)	80-500 V			120-1000 V				250-850 V									
No. of MPPT Tracker	1			2									3		4	6	
Short Circuit Current (A)	30 A										40 A		60 A				

Output Side (AC)

Output Power (kW)	3	4	5	5	6	8	10	12	15	20	25	30	40	50	80	100
Operating Grid Voltage (V)	140 V - 285 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)	5 kg		8 kg	11 kg					20 kg			29 kg	39 kg		60 kg	81 kg
Dimension (WxHxD) mm	280x272.5x184		330x348x179	385 x 479 x 184					362 x 527 x 220			330 x 527 x 206	434 x 570 x 243		700 x 575 x 297	824 x 516 x 312

General Data

Operating Temperature	-25°C to 65°C															
Display	Graphical LED with LCD Display															
DC / AC Connectors (IP65)	MC4/ AC Power Connector															
Communication Interface	Wifi / GPRS / RS-485 / RS-232 / ETHERNET LAN															

Warranty and Certifications

Standard Warranty	10 years*															
Certificates	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 consumer opts for physical verification to verify the installation Guidelines.
- 6) To know more about the warranty, just check the warranty manual.





FUSION

HYBRID PV INVERTER

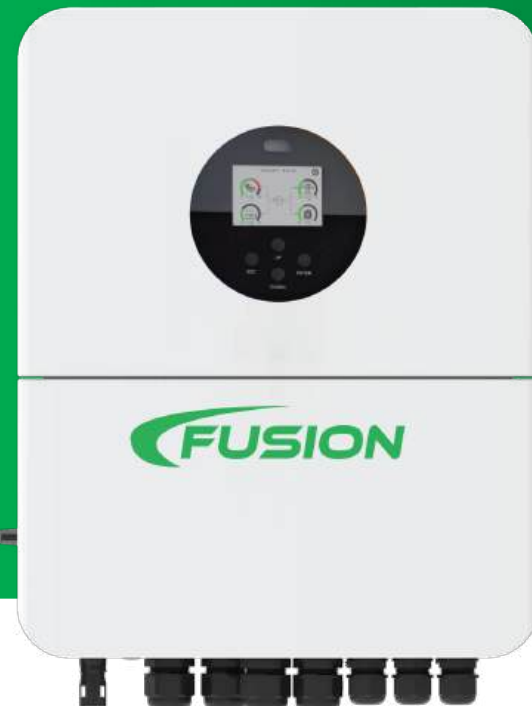
Single-Phase

5 kW - 10kW

Three-Phase

10 kW - 50 kW

Low Voltage / High Voltage



Leading Features



Hybrid Functionality

Supports both solar and grid power for uninterrupted supply

Battery Compatibility

Works with both lithium-ion and lead-acid batteries

High Efficiency (up to 97.6%)

Delivers more power with less energy loss

Wi-Fi & Mobile Monitoring

Enables real-time remote monitoring via mobile app



Applications



Smart Home



Office



Hospital



Bank

Technical Specifications

Output Power(kW)	5 kW	10 kW	12 kW	15 kW	20 kW	25 kW	30 kW	40 kW	50 kW
Low Voltage (LV)						High Voltage (HV)			

Input Side (DC)

Input Side (DC)									
Max. DC Input Power (kW)	5	10	12	15	20	25	30	40	50
Operating Phase	Single-Phase	Three-Phase							
MPPT Input I/P Current (A)	20 A						26 A		
MPPT Operating Voltage (V)	150-425 V		200-650 V			200-850 V			
No. of MPPT Tracker	2					4			
Short Circuit Current (A)	30 A						40 A		

Output Side (AC)

Output Power (kW)	5	10	12	15	20	25	30	40	50
Output Current (A)	21.7 A	14.5 A	17.4 A	22.8 A	30.4 A	42 A	50 A	66 A	83 A
Rated Grid Voltage (V)	230 V	415 V							
Nominal Grid freq. (Hz)	50 Hz								
AC Connection (with PE)	L + N + E	3L + N + E							
Output Over Voltage Protection	DC Type / AC Type								
Output Power Factor (%)	>99.99%								

Efficiency

Max. Conversion eff.(%)	97.60%	98.80%
Max. MPPT Efficiency (%)	99.90	

Mechanical Data

Weight (kg)	19	35.2		51		72			
Dimension (WxHxD) mm	376 x 470 x 241	386 x 660 x 250		456 x 750 x 268		527 x 894 x 294			

General Data

Operating Temperature	-45°C to 60°C, >45°C derating								
Display	Graphical LED with LCD Display								
DC / AC Connectors (IP65)	MC4/ AC Power Connector								
Communication Interface	Wifi / GPRS / RS-485 / RS-232 / ETHERNET LAN								

Warranty and Certifications

Standard Warranty	5 years*								
Certificates	IEC Equivalent BIS Standard: IS 61683, IS 16221, IEC 60068, IEC 61000								

Battery Configuration

Battery Type	Lithium-ion								
Battery Voltage Range (V)	40 - 60 V					160 - 700 V	160 - 800 V		
Maximum Charging Current (A)	120	210	240	280	350	50	50+50		
Maximum Discharging Current (A)	120	210	240	280	350	50	50+50		

To know more about the warranty, just check the warranty manual.



Our Installation





Haryana PWD



A Navratna CPSE

National Building
Construction Corporation



सेल SAIL

Steel Authority
of India Limited



Jharkhand Renewable
Energy Development Agency



Nuclear Power
Corporation of India



South Eastern
Railway



UPNEDA

एनएमडीसी



National Mineral
Development Corporation



Northern India Textile
Research Association



रक्षा उत्पादन विभाग
DEPARTMENT OF
DEFENCE PRODUCTION

Department Of Defence



भारत कोकिंग कोल लिमिटेड
Bharat Coking Coal Limited

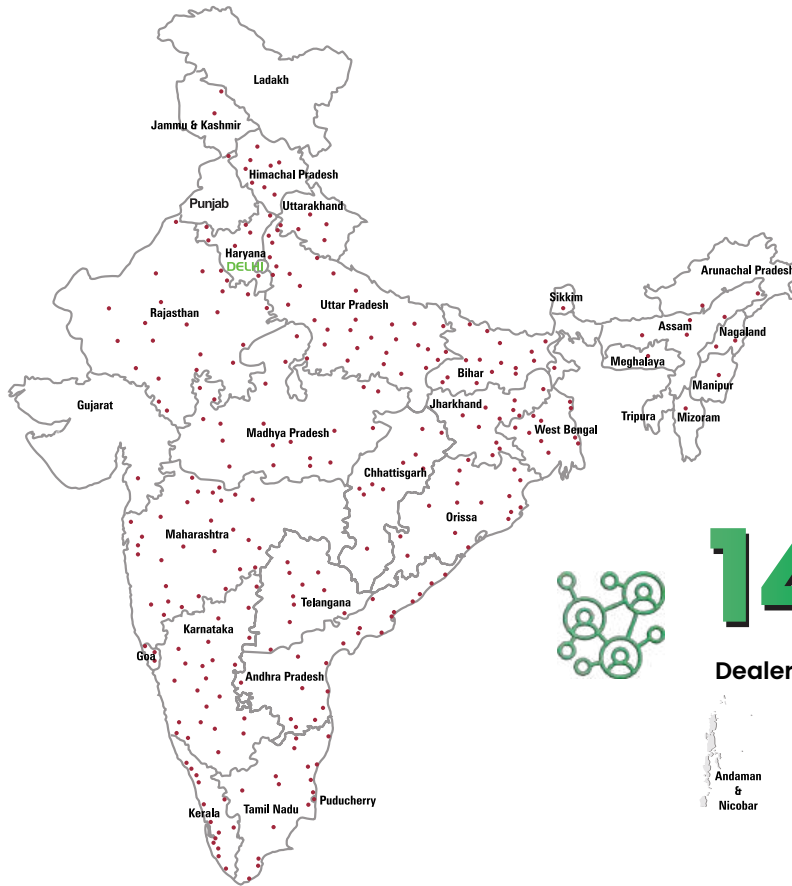
Bharat Coking
Coal Limited



Maharashtra PWD



Distribution Network

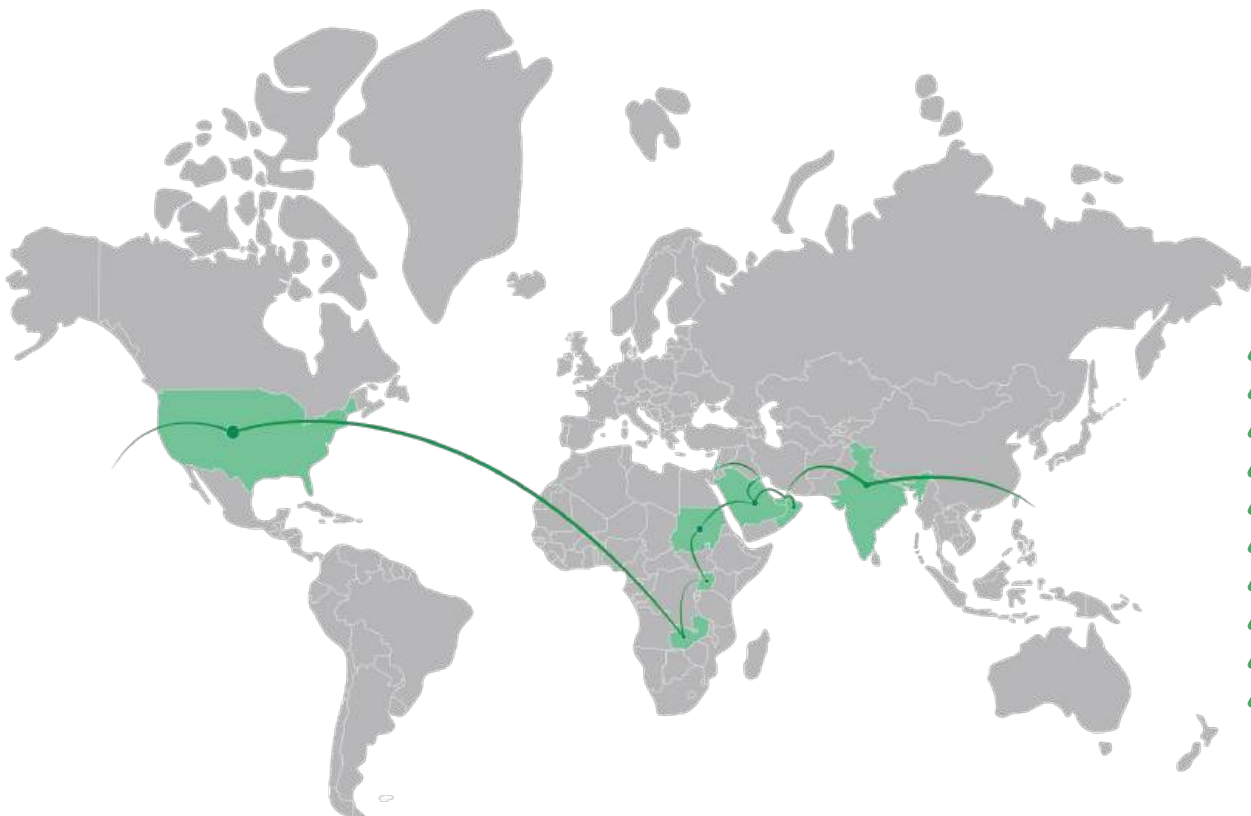


14,000

Dealers & Distributors across India

Andaman
&
Nicobar

Export



- ▲ United State
- ▲ Sudan
- ▲ Israel
- ▲ Saudi Arabia
- ▲ Denmark
- ▲ Kuwait
- ▲ UAE
- ▲ Oman
- ▲ Zambia & Malawi
- ▲ Uganda



अपनी घर, अपनी बिजली

**WIDEST RANGE
of Solar Products**



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