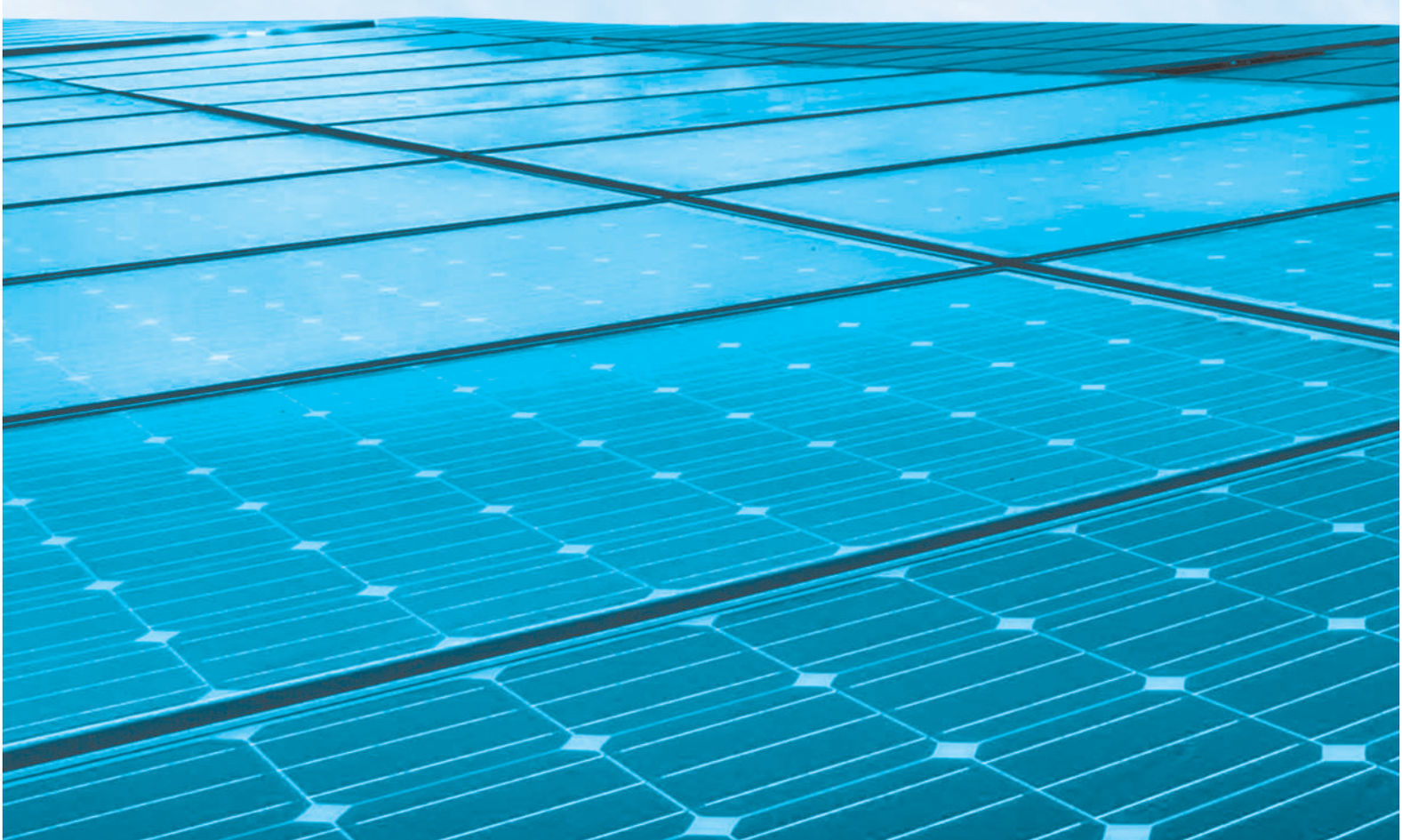
MAS Solar



www.massolarsystems.com

MAS SOLAR

PIONEERING SOLAR ENERGY SOLUTIONS

MAS Solar Systems Private Limited, established August 2010 in Coimbatore, focuses exclusively on solar energy. As one of India's largest solar PV Module manufacturers, we provide EPC services for rooftop and ground-mounted solar power plants for HT and LT consumers (ON GRID and OFF GRID). Our energy solutions cater to industrial, institutional, domestic, and commercial sectors. We also collaborate with renewable research institutions for product development, testing, certifications, and training programs.

WHY MAS ?

- EXCLUSIVE SOLAR FOCUS
- ESTABLISHED LEGACY
- STRATEGIC LOCATION
- LARGE-SCALE MANUFACTURING
- COMPREHENSIVE EPC SERVICES
- VERSATILE SOLUTIONS
- WIDE SECTOR COVERAGE
- COLLABORATIVE DEVELOPMENT

VISION

Deliver renewable energy solutions that delight customers and create shareholder value.

MISSION

Become a world class solar energy manufacturer and solutions provider with affordable prices globally.

GOAL

Aim to lead the solar power industry and achieve ~ 1000 crore turnover with 200 happy employees and 300 satisfied customers by 2027.

MAS SOLAR

ACCOMPLISHMENTS

2010	Company Incorporation
2011	Started manufacturing Solar Water Heaters
2012	Started manufacturing Solar Street Lights
2013	Started manufacturing Solar off grid Power Plant
2014	Added Solar Water Pump manufacturing
2015	Solar Integrated for Solar on grid Power Plant
2016	Successfully launched our first government Tender Project
2017	Started Our PV Modules Manufacturing unit
2018	Started our Solar services for other brands under AMC
2019	Successfully implemented a rooftop megawatt project
2020	Started manufacturing essential products in Covid-19 period like Mask, Oxygen concentrator
2021	Started Ground Mounted Mega Watt Project
2022	Successfully finished our first One Mega Watt Ground Mounted Solar Power Plant.
2023	Successfully installed 10 Mega Watt Power Plant
2024	Successfully reached 50 Mega Watt (34 MW Ground Mounted, 16 MW Roof Top)

MW GROUND MOUNTED PROJECT

A ground-mounted solar system is a solar panel installation where the panels are mounted on a structure directly anchored to the ground, allowing for larger scale solar power generation compared to rooftop systems, by utilizing open spaces with optimal sun exposure to maximize energy production; key elements include site selection, soil analysis, mounting structures, panel arrangement, wiring, inverters, and considerations for land preparation, permitting, and maintenance to ensure efficient operation and minimize environmental impact.

BENEFITS :

Larger capacity : Can be built on a larger scale to meet high energy demands for residential, commercial, or utility-scale projects.

Easy installation : Generally easier to install compared to rooftop systems as it doesn't require roof structural assessments.

Inverter : Solar PV Inverter Grid-tie inverters convert DC electrical power into AC power suitable for injecting into the electric utility company grid.

Mounting structure : The structures has been designed for 140 km/Hr wind speed and will be made up of hot dip galvanized mild steel of suitable size and designed to withstand forces during normal conditions and abnormal conditions.

KTM JEWELLERY, COIMBATORE. CAPACITY - 2.4 MW

SPACE TEXTILES, TIRUPUR. CAPACITY - 7.2 MW

MW GROUND MOUNTED PROJECT

MW GROUND MOUNTED PROJECT

THE MADRAS SILKS, CHENNAI. CAPACITY - 2.4 MW

SULUR MAHARAJA, COIMBATORE. CAPACITY - 7.8 MW

SRG APPARELS LIMITED, TIRUPUR. CAPACITY - 5.2 MW

MW GROUND MOUNTED PROJECT

SHRI SATHAASIVA, NAMAKKAL. CAPACITY - 5.2 MW

SUBADRA SPINNING MILLS, TIRUVANNAMALAI. CAPACITY - 1 MW

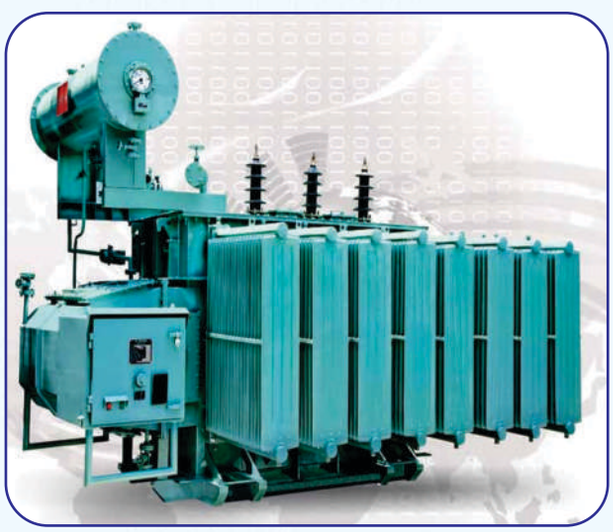
PEM POWER ENERGY P LTD, TIRICHY. CAPACITY - 2.6 MW

MW GROUND MOUNTED PROJECT

MARUTHI TEXTILES, TIRUPPUR.
CAPACITY - 1.2 MW

TOUNGARA KATI - MALI, AFRICA.
CAPACITY - 5 MW

CENTRAL INVERTER



TRANSFORMER

CONTROL ROOM

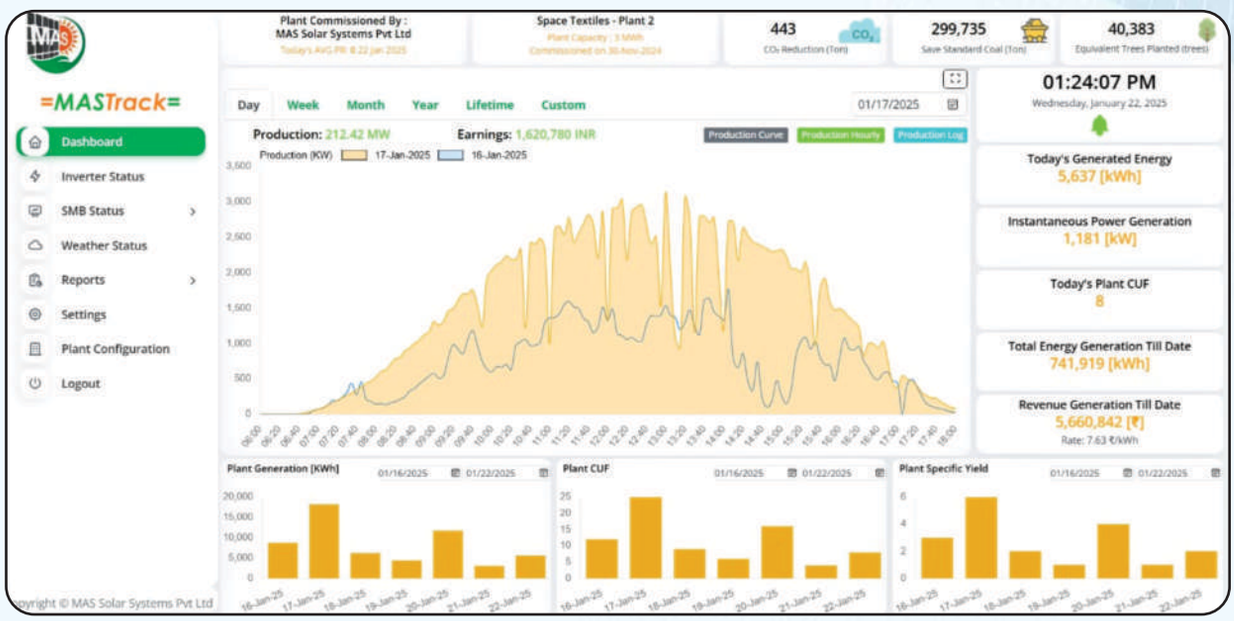
4 POLE STRUCTURE

MW GROUND MOUNTED PROJECT

MASTrack SCADA

Centralized Remote Monitoring of Power plants through IoT and Cloud based data access

- Innovative and user-friendly SCADA software to monitor Daily Energy generation, Total Energy Generation, Revenue Generation, Plant CUF, Plant Specific Yield, Power, Voltage, Current, Power factor, Frequency in Day, Week, Month and Year wise.
- To ease the Maintenance activities the Inverter Fault status, SMB and String fault status helps in faster trouble shooting and reduced down time resulting in higher energy production.



Automatic PV module Dry cleaning robot for faster cleaning and increased energy generation.

- Saves 12 million Liters of water annuallyfor 1 MW.
- In single charge the Robot can run for 4 Hours (2.5 Kms) and can clean 1 MW.
- Proven Energy generation increase of up to 8% in an yearly average.

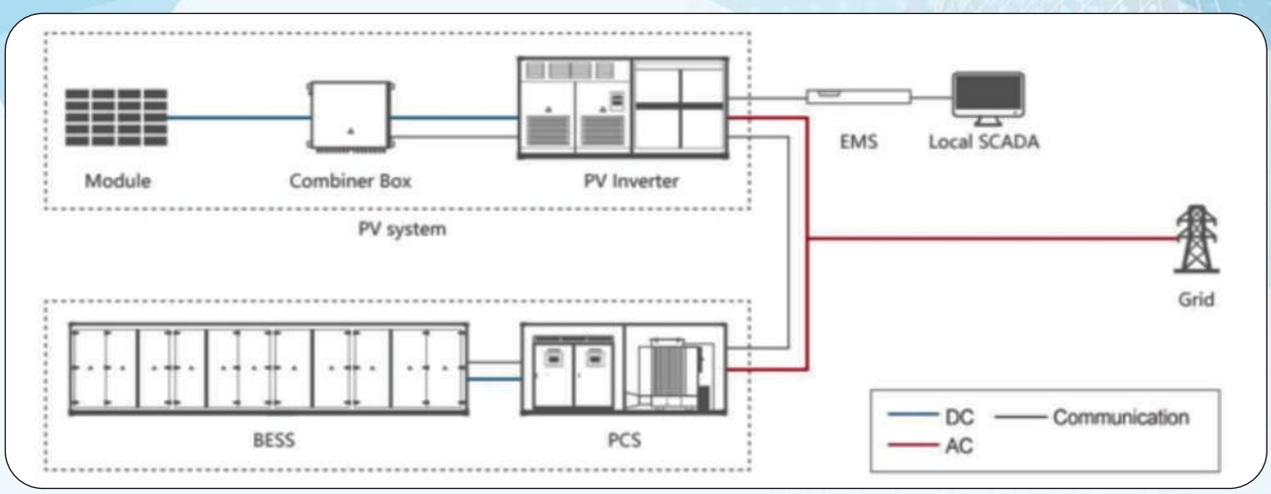
BATTERY ENERGY STORAGE SYSTEMS (BESS)

A Battery Energy Storage System (BESS) is a technology that stores electrical energy in batteries, allowing it to be used when needed. It captures excess energy, typically from renewable sources like solar or wind, and releases it when demand increases or when energy generation is low.

Benefits of Battery Energy Storage Systems

- Efficient Energy Management - store excess energy during off-peak hours and release it when demand spikes.
- Enhancing Renewable Energy Integration - Solar and wind energy production can be inconsistent. BESS stores surplus energy during high production times and releases it when renewable sources aren't generating enough.
- Reliable Backup Power - For critical infrastructures such as Hospitals, Data centers, and Emergency services, BESS can provide stable and Noise free backup power during outages.
- Cost Savings and Economic Benefits - By storing electricity during periods of low demand when rates are cheaper and using it during peak demand when prices are higher, businesses and individuals can lower their overall electricity bills.
- Environmental Advantages - BESS helps reduce greenhouse gas emissions by decreased usage of fossil fuel-based power plants. BESS contributes to a lower carbon footprint, supporting efforts to mitigate climate change and protect the environment.

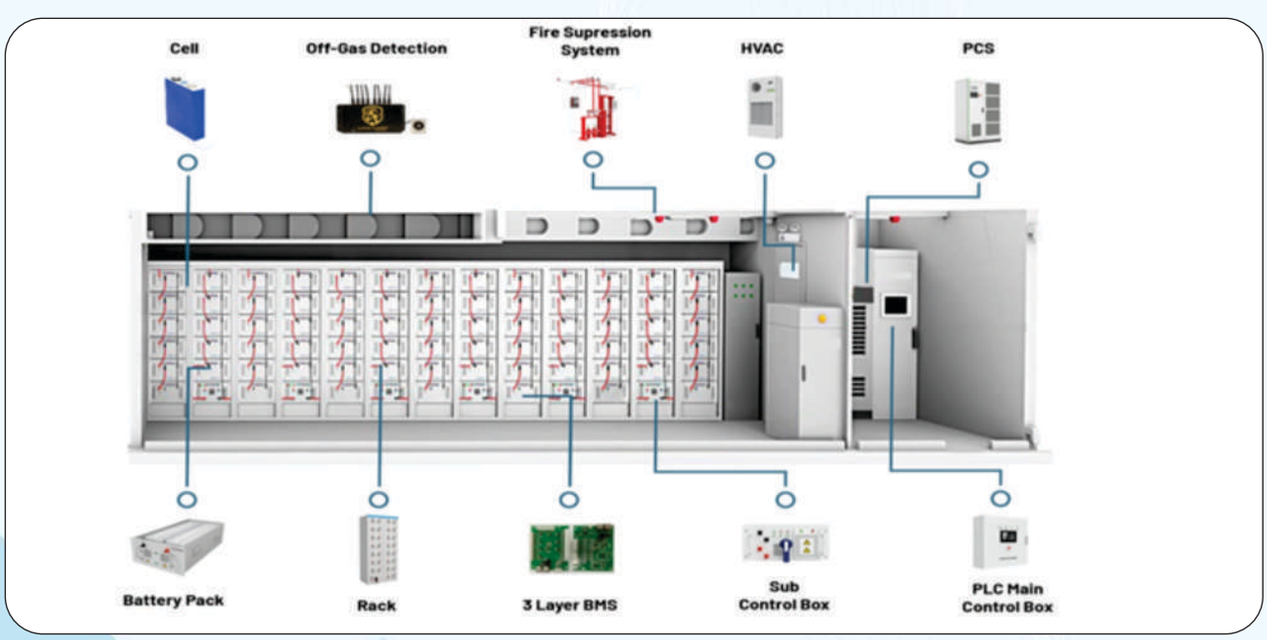
BESS System for Solar Power plant



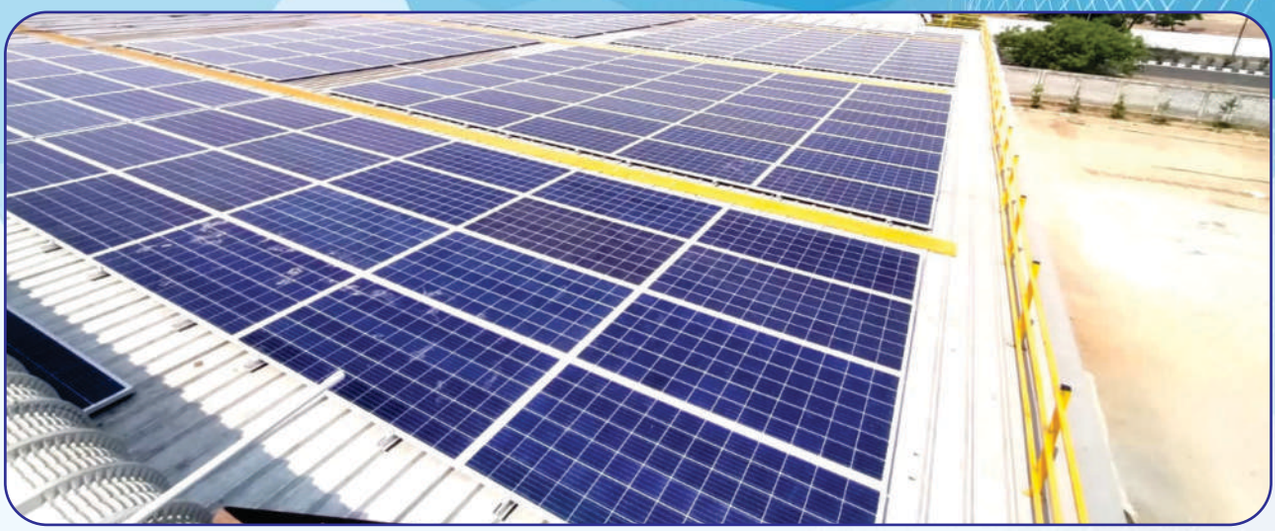
BESS Models:

- 1.25 MW / 5 MWh
- 0.5 MW / 1.25 MWh
- 200 KW / 500 KWh
- 100 KW / 250 KWh
- And many more..

Functional Components of a BESS



ROOF TOP PROJECTS



VALLALAR TEXTILES, ANNUR - 1 MW

SITRA, COIMBATORE. 130 KW

FLOFLEX, PERUNDURAI. 750 KW

ROOF TOP PROJECT

CNV TEXTILES, COIMBATORE - 685 KW

GOVARTHANA, VELLAKOVIL - 260 KW

MAHARAJA ROOFING PRODUCTS, COIMBATORE - 100 KW

FEATURES

- One time Investment and Free Power for more than 25 years.
- Reduce the electricity bill for both LT and HT consumers
- Low / Easy maintenance, Passive income through surplus export energy.
- Cost-Effective and convenient, Reduce the fuel cost which is used in diesel generator.
  Return of investment (ROI) within 3-5 yeras Eco - Friendly.
- Most useful system to reduce the electricity bill. For LT consumers Net/Gross
- meter facility also available with (AMC)

CUSTOMER DETAILS

S.No.	CUSTOMERS	PLACE	CAPACITY
1	Vallalar Textiles	Annur, Coimbatore	1 MW
2	Floflex	Perundurai,Erode	750 KW
3	CNV Textiles Private Limited	chinniampalayam, Coimbatore	685 KW
4	Govardhana	Vellakoil	260 KW
5	Sri Arul Murugan Textiles	Coimbatore	170 KW
6	United Enterprises	Malumichampatti, Coimbatore	140 KW
7	SITRA	SITRA, Coimbatore	130 KW
8	Dollar Industries	Tirupur	130 KW
9	KSS Manjal Mandi	Perundurai	120 KW
10	Siva Murugan Textiles	Palladam, Tirupur	120 KW
11	SP Mills	Somanur, Coimbatore	120 KW
12	Sri Murugan Spinning Mills	Somanur, Coimbatore	114 KW
13	Sri Amman Spinners	Udumalpet, Tirupur	110 KW
14	Indian Bank	Saidapettai, Chennai	100 KW
15	BSNL	Trivandurm, Kerela	100 KW
16	Weavers Sizing Mills	Vijayamangalam, Erode	100 KW
17	Greendrop	Annur, Coimbatore	100 KW
18	SRJ Textiles	Karumathampatti, Coimbatore	100 KW
19	Ganapathy Textiles	Vellakoil, Tiruppur	100 KW
20	Shanmugabala Textiles	Arasur, Coimbatore	100 KW
21	Abarba Colors	Murugampalayam, Tiruppur	100 KW
22	Padma Textiles	Somanur, Coimbatore	100 KW
23	Redlands Ashlyn Motors	Malumichampatti, Coimbatore	100 KW
24	RV Industries	Eachanari, Coimbatore	100 KW
25	PR Process	Mangalam, Tiruppur	100 KW
26	Maharaja Roofing Products	Sulur, Coimbatore	100 KW
27	Thamarai Spinning Mills	Vellakoil, Tiruppur	100 KW
28	Usha Textiles	Palladam, Tiruppur	99 KW
29	Suba Textiles	Palladam, Tiruppur	80 KW
30	Sri Vinayaga Textiles	Karadivavi, Coimbatore	60 KW
31	Vijay Tex	Palladam, Tirupput	60 KW
32	Shanthi Feeds	Pappampatti, Coimbatore	60 KW
33	Vasantha Packaging	Sivakasi, Virudhunagar	58 KW
34	Southern Railway	Podanur, Coimbatore	50 KW
35	Rajkumar Tex	Kinathukadavau, Coimbatore	30 KW
36	SKM Textiles	Perundurai, Erode	25 KW
37	Anna University	Guindy, Chennai	20 KW

ROOF TOP PROJECT

PM SURYAGHAR SCHEME

Go solar to power your home with sustainable, renewable energy and save on electricity bills.

SUBSIDY STRUCTURE

1 KW - Rs. 30,000/-

2 KW - Rs. 60,000/-

3 KW to 10 KW - Rs. 78,000/-

for Registration : www.pmsuriyaghar.gov.in

AMC (Annual Maintenance Contract)

Providing AMC for other brands

Highly Secured

Unnecessary expense reduction

Save Money

Yearly 12 Visits

Emergency Service

Expert technical person

Regular Checkup

FOR AMC ENQUIRES

+91 95855 56509, 95855 56510

service@massolarsystems.com

MAS SOLAR SYSTEMS PRIVATE LIMITED

MAS SOLAR EPC PRIVATE LIMITED

No.153, SIDCO Industrial Estate, Malumichampatti (Post),
Coimbatore - 641 050

Marketing	**95855 56502**	**marketing@massolarsystems.com**
	95855 56504	**m1@massolarsystems.com**
Customer Support	**95855 56509**	**service@massolarsystems.com**
	95855 56510	

Tell : 0422 2655995 / 2655996

MAS/CAT15/0225