



Domestic Capex Proposal  
1-10 KW Rooftop Solar Power Plant

பிரதம மந்திரி சூரிய வீடு இலவச  
மின்சார திட்டம்

**PM – Surya Ghar: Muft Bijli Yojana**

**MSM Energy Renewables Private Limited**  
**MSM Energy Enterprises**

Factory: 94-1, I.O.B Colony, Maruthamalai Adivaram, Coimbatore -641046

Showroom: 63 Avarampalayam Road, Coimbatore -641044

Our Other Outlets; Aruppukottai / Ramanathapuram/Keelakarai /Chennai

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Email: [info@msmsolarenergy.com](mailto:info@msmsolarenergy.com) / GSTIN: 33BHTPM4256K1ZT



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**பிரதம மந்திரி சூரிய வீடு இலவச மின்சார திட்டம்**  
**அனைத்து வீட்டு மின் இணைப்பு உரிமையாளர்களும் இத்திட்டத்தில் விண்ணப்பிக்கலாம்**

**இத்திட்டத்தின் சிறப்பு அம்சங்கள்**

- ★ மானியம்:
  - 1 கிலோ வாட் ₹ 30,000
  - 2 கிலோ வாட் ₹ 60,000
  - 3 கிலோ வாட் அதற்குமேல் ₹ 78,000
- ★ இத்திட்டத்திற்கு வங்கிகள் மூலம் உடனடியாக கடன் வழங்கப்படும்
- ★ இத்திட்டத்தில் மேற் கூறப்பட்ட மானியம் நுகர்வோரின் வங்கி கணக்கில் நேரடியாக சூரிய திட்ட பணிகள் முடிவுற்ற 7 நாட்களில் இருந்து 30 நாட்களுக்குள் செலுத்தப்படும்.
- ★ 1 கிலோ வாட் சூரிய தகடு. ஒரு நாளில், 4 முதல் 5 யூனிட்க்கள் வரை மின் உற்பத்தி செய்யும், நுகர்வோர் செய்யும் முதலீடு குறுகிய காலத்தில் திரும்பப் பெறலாம்.



**இத்திட்டத்தில் விண்ணப்பங்கள் கீழ்கண்ட ஏதேனும் ஒரு முறையில் பதிவு செய்யலாம்.**

- ★ Registration [pmsuryaghar.gov.in](http://pmsuryaghar.gov.in) என்ற இணையதளம் மூலமாக
- ★ [www.pmsuryaghar.gov.in](http://www.pmsuryaghar.gov.in) என்ற இணையதளம் மூலமாக
- ★ [www.solarrooftop.gov.in](http://www.solarrooftop.gov.in) என்ற இணையதளம் மூலமாக
- ★ "PM-suryaghar" என்ற மொபைல் ஆப் மூலமாக
- ★ "QRT pm Surya Ghar" என்ற மொபைல் ஆப் மூலமாக

சூரிய ஒளி மூலம் மின் உற்பத்தியை பெருக்கி, 'பசுமையான, ஒளி மயமான' எதிர்காலத்தை உருவாக்குவோம்.

அனைத்து வீட்டு மின் இணைப்பு உரிமையாளர்களும் கூடுதல் ஆவணங்கள் இன்றி மின் கட்டண இரச்சு மட்டுமே பதிவேற்றம் செய்து இத்திட்டத்தில் விண்ணப்பிக்கலாம்.

| இரு மாத மின் நுகர்வு                             | 400 Units  | 500 Units   | 600 Units   |
|--------------------------------------------------|------------|-------------|-------------|
| மின்சார வாரியத்திற்கு செலுத்தும் தொகை ₹          | 1125       | 1719        | 2736        |
| சூரிய மின் தகடு பொறுத்திய பின் செலுத்தும் தொகை ₹ | 206        | 476         | 1241        |
| சேமிக்கும் தொகை ₹                                | <b>919</b> | <b>1240</b> | <b>1495</b> |

**Call Us : 9944510957**

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नवीन एवं  
नवीकरणीय ऊर्जा मंत्रालय  
MINISTRY OF  
NEW AND  
RENEWABLE ENERGY



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भारत सरकार नवीन और नवीकरणीय ऊर्जा मंत्रालय  
GOVERNMENT OF INDIA MINISTRY OF NEW AND RENEWABLE  
ENERGY  
**National Portal  
for Rooftop Solar**



**PM SURYA GHAR  
MUFT BIJLI YOJANA**

| Solar Capacity | AVERAGE EB BILL VALUE (60 Days) | After SOLAR INSTALLATION PAY ONLY |
|----------------|---------------------------------|-----------------------------------|
| 1 KW           | Rs.500 - Rs.1000                | Rs.110                            |
| 2 KW           | Rs.1000 - Rs.2500               | Rs.220                            |
| 3 KW           | Rs.2500 - Rs.5000               | Rs.330                            |
| 4 KW           | Rs.5000 - Rs.7500               | Rs.440                            |
| 5 KW           | Rs.7500 - Rs.11000              | Rs.550                            |
| 6 KW           | Rs.11000 - Rs.14500             | Rs.660                            |
| 7 KW           | Rs.14500 - Rs.17500             | Rs.770                            |
| 8 KW           | Rs.17500 - Rs.20500             | Rs.880                            |
| 9 KW           | Rs.20500 - Rs.23500             | Rs.990                            |
| 10 KW          | Rs.23500 - Rs.27000             | Rs.1100                           |



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**Ref:** MSM/SOLAR/ONGRID/2026

Date: January 2026

**Sub:** Submission of Solar Subsidy scheme for Domestic Proposal from 1-10KW Solar Power Plant.

Dear Sir,

1. Thank you for reaching out to MSM Energy Renewables Private Limited (MSM Energy Enterprises), a MSM Group Company for setting-up a World Class Standard Solar system.
2. Is an Integrated solar energy player which brings in unparalleled credibility with its presence in the complete value chain of the solar energy, including the manufacturing of solar modules (mono-crystalline and poly-crystalline), on-grid and off-grid solar string inverters, solar power packs besides being a Turnkey Engineering, Procurement and Construction (EPC) Company. Through its group companies, it also provides innovative financing options and asset management services for eligible customers.
3. We are pleased to submit a Techno-commercial proposal, for setting-up a Net metering based Solar PV Power Plant, at your premises on Turnkey basis. Details of the Solar System, Bill of Material (BOM), Technical Standards of BOM, Working of Solar System, General Terms and Conditions are included herein.
4. MSM Energy will leverage its extensive experience in building your solar system and deliver maximum overall benefit to you.
5. Project Execution timeline shall be 10-15 Days considering Complete Project Schedule. The detailed project execution schedule shall be shared post award of project.

Sincerely,

M.S. Muthusamy (MSM Group)  
Customer Success Director  
(info@msmsolarenergy.com)  
+91-99445 10957

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## **Why Choose MSM ENERGY:**

"World's No. 1 Solar Company"

A Company Run by Government certified /Trained Engineers Having 20+ Years Experience in Renewable Energy Industry.

**“Empowering a Greener Future with Excellence”**

### **Description:**

"Join the MSM ENERGY family and experience the best in solar innovation! With 20+ years of expertise and 30,0000+ happy customers, we're the trusted leaders in the industry. Our commitment to quality products, exceptional service, and customer satisfaction is unmatched. We proudly service all major brands, ensuring you receive the best support for your solar needs.

- ❖ Unparalleled Experience: 20+ years of solar expertise
- ❖ Customer Delight: 30,0000+ happy customers worldwide
- ❖ Quality Guaranteed: Top-grade products for maximum efficiency
- ❖ Exceptional Service: Dedicated support before, during, and after sales
- ❖ Multi-Brand Support: We service all major solar brands

### **Trust MSM ENERGY for:**

- ❖ Reliable Solar Solutions: Tailored to your energy needs
- ❖ Expert Installation: Ensuring maximum efficiency and safety
- ❖ Comprehensive Support: From consultation to after-sales service

### **Get in Touch:**

Experience the MSM ENERGY difference today! Contact us to learn more about our solar solutions and take the first step towards a sustainable future."

"Empowering a Greener Tomorrow, One Solar Solution at a Time."

**“60+ Awards and Counting our Journey in Solar Power is Built on Trust and Achievement. Celebrating Innovation, Sustainability, and Customer Satisfaction at Every Step”**

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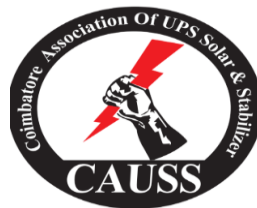
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## We are proud to be members of Many Association:

### 1. Leadership/ Business Development Organisation:



### 2. Our Journey Toward a Brighter, Solar Future:



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## Satisfied Customer Reviews:

FIVE STAR RATINGS NO-1 Company in Tamil Nadu: <https://g.co/kgs/HMF7g7>

For More Details Visits: [www.msenergy.in](http://www.msenergy.in)

OUR COMPANY ARTICALS in THINAMALAR NEWS PAPER:



**தீனமலர்**  
2025

# கோவை

## வாழ்நாள் முழுவதும் மின்சாரம், காஸ் இலவசம்



உயரும் காஸ் சிலிண்டர் விலை, எதிரும்  
கரண்ட் பில் பற்றி கவலைப்பட வேண்டாம்.  
சோலார், ப்யோகாஸ் வாயிலாக வாழ்நாள்  
முழுவதும் இலவசமாக சூரிய ஒளி மின்சா  
ரம், வெந்நீர், இயற்கை எரிவாயுவை உங்  
கள் வீட்டிலேயே உற்பத்தி செய்யலாம்.  
கடந்த 15 ஆண்டுகளாக சோலார் பொருட்  
கள் உற்பத்தியில் சிறந்து விளங்கும் எம்.  
எஸ்.எம்., எனர்ஜி என்டர்பிரைசஸ், தமிழ்  
கம் முழுவதும் 30 ஆயிரத்திற்கும் மேற்பட்ட  
வாடிக்கையாளர்களைக் கொண்டுள்ளது.  
சோலார் பவர் பிளான்ட்ஸ், சோலார் வாட்  
ட் ஹீட்டர், சோலார் தெரு விளக்கு, சோலார்  
வாட்டர் பம்புஸ், சோலார் யு.பி.எஸ்., சிஸ்  
டம்ஸ், சோலார் ஆக்சரீஸ் மற்றும் ப்யோ  
கேஸ் பிளான்ட்ஸ் அமைத்து தருகின்றன.  
உலக தரமான பொருட்களையும், சேவை  
யும் நியாயமான விலையில் வழங்குவது எம்.  
எஸ்.எம்., எனர்ஜி என்டர்பிரைசஸின் தனிச்சி  
றப்பாகும். விற்பனைக்கு பிறகும் சிறப்பான  
பராமரிப்பு சேவையையும் வாடிக்கையாளர்  
களின் இடத்திலேயே வழங்குகின்றனர். மத்  
திய, மாநில அரசுகளின் அங்கீகாரம் பெற்றிருப்  
பதால், அரசு மானியத்துடன் சோலார் மற்றும்  
ப்யோ காஸ் உபகரணங்களை வாங்கலாம்.  
- எம்.எஸ்.எம்., எனர்ஜி என்டர்பிரைசஸ்,  
ஆவாரம்பாளையம் ரோடு, ராமகிருஷ்ணா  
சிக்னல் அருகே, சித்தாபுதூர். - 99445 10957.  
தொழிற்சாலை: ஐ.ஓ.பி.காலனி மருதமலை.

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## சிட்டி ஷாப்பிங்

இ.பி., பில் இல்லை  
சோலார் அமைக்கலாம்



தமிழகத்தில் அதிகமான வடிக்கையாளர்க  
ளிடம் நன் மதிப்பை பெற்ற எம்.எஸ்.எம்.,  
என்டர்பிரைசஸ் நிறுவனம்.

30 ஆயிரத்திற்கும் மேற்பட்ட வாடிக்கை  
யாளர்களைக் கொண்டுள்ளது. சோலார் பவர்  
பிளான்ட்ஸ், வாட்டர் ஹீட்டர், சோலார்  
தெரு விளக்கு அமைத்து தருகின்றன.

சோலார் வாட்டர் பம்ப்ஸ், சோலார் யு.பி.  
எஸ்., சிஸ்டம்ஸ், சோலார் ஆக்சரீஸ், பயோ  
காஸ் பிளான்ட்ஸ் அமைத்து தருகின்றன.  
தற்போது, எம்.எஸ்.எம்., எனர்ஜி சோலார்  
ஹீட் பம்ப் நல்ல வரவேற்பை பெற்றுள்ளது.

உலக தரமான பொருட்களையும், சேவை  
யும் நியாயமான விலையில் வழங்குகின்ற  
னர். விற்பனைக்கு பிறகும், வாடிக்கையா  
ளர்களின் இடத்திலேயே சிறந்த பராமரிப்பு  
சேவையும் வழங்கப்படுகிறது.

அனைத்து விதமான சோலார் பொருள்  
களும், இங்கு சர்வீசும் செய்யப்படும். மத்  
திய, மாநில அரசுகளின் அங்கீகாரம் பெற்ற  
ருப்பதால், அரசு மானியத்துடன் சோலார்  
மற்றும் பயோ காஸ் உபகரணங்களை  
வாங்கலாம்.

- எம்.எஸ்.எம்., எனர்ஜி என்டர்பிரைசஸ்,  
ஆவாரம்பாளையம் ரோடு, ராமகிருஷ்ணா சிக்னல்  
அருகே, சித்தாபுதூர். தொழிற்சாலை: ஐ.ஓ.பி.,  
காலனி, மருதமலை.

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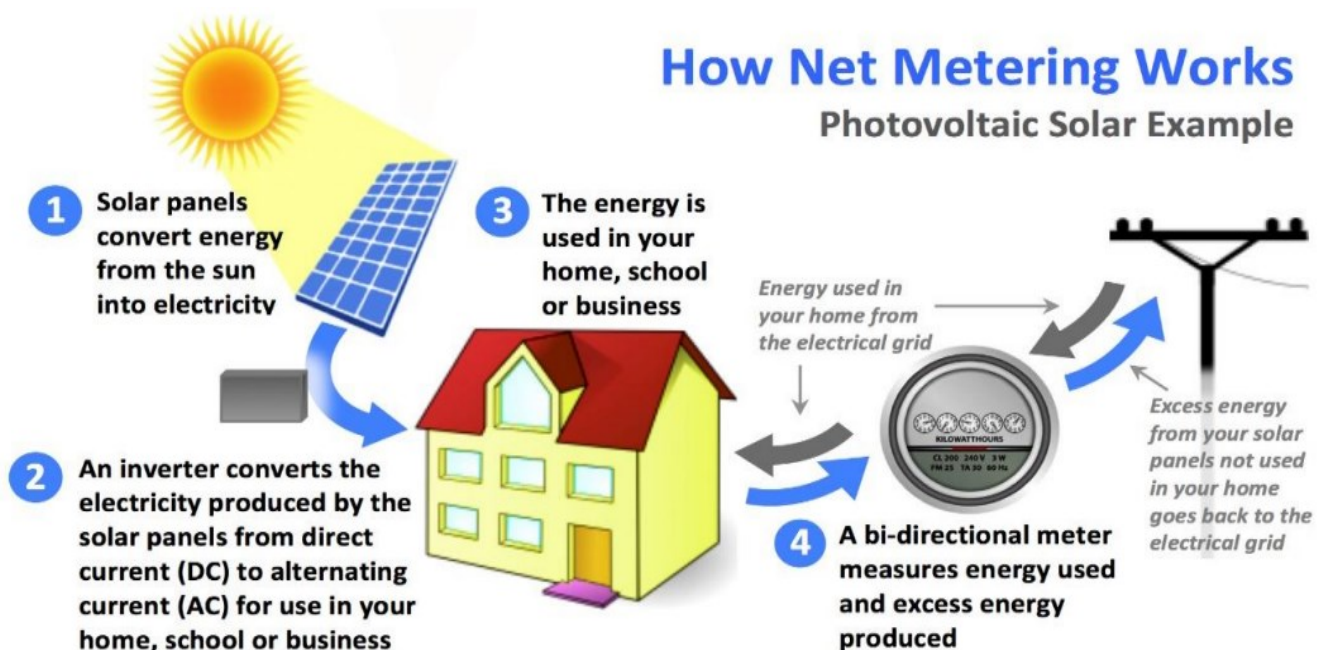
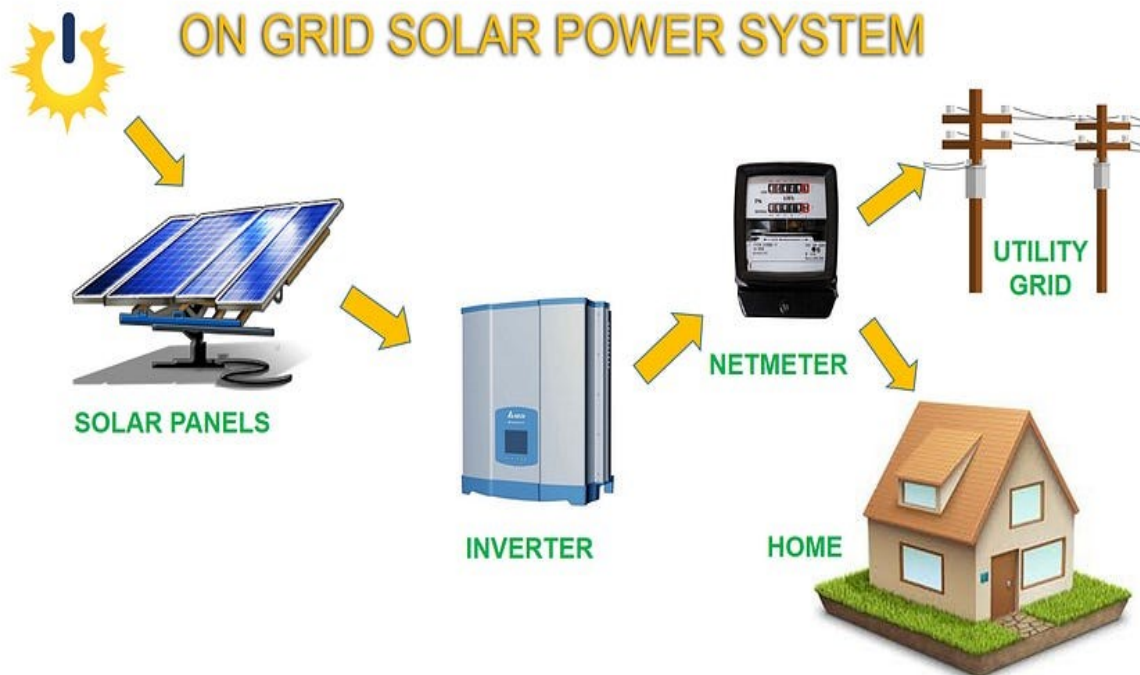
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Email: [info@msmsolarenergy.com](mailto:info@msmsolarenergy.com) / GSTIN: 33BHTPM4256K1ZT



## Solar Plant Working Diagrams:



### MSM Energy Renewables Private Limited MSM Energy Enterprises

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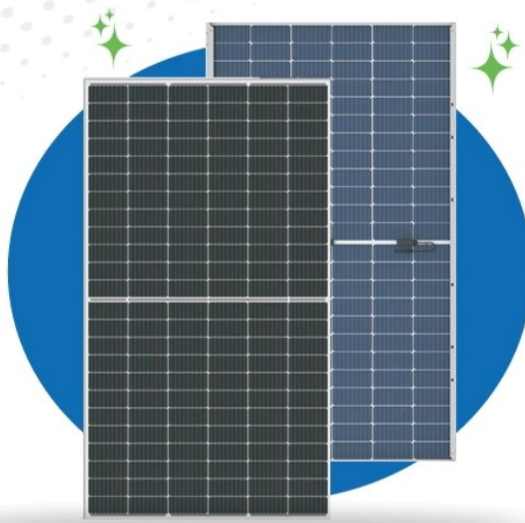
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## Solar Panels Technical Details: (Data Sheet)



### SOLAR PV MODULE (DCR/NON-DCR) 144 HALF CUT MONO PERC CELL BIFACIAL TRANSPARENT BACKSHEET 525-555 W



India's First DCR Module with M10 MonoPERC Cell

#### TRANSITION TO A BRIGHTER TOMORROW

- Based on M10-182mm wafer, best choice for ultra-large power plant
- Advanced module technology delivers superior module efficiency
  - M10 Gallium-Doped Wafer
  - Smart Soldering
  - 10 Busbar Half-Cut Cells
- ARC Coated, High Transmission Glass for Higher Energy Yield
- High Module Quality Ensures Long-Term Reliability

#### HIGH PERFORMANCE GUARANTEE!

**30 YEARS WARRANTY** FOR  
LINEAR POWER OUTPUT

**12 YEARS PRODUCT**  
WARRANTY



#### SMBB TECHNOLOGY

Better light trapping and current collection to improve module power output and reliability



#### PID Resistance

Excellent Anti-PID performance guarantee via optimized mass-production process and materials control



#### Higher Power Output

Module power increases 5-25% generally, bringing significantly lower LCOE and higher IRR



#### Auto Bussing & Soldering Technology

Induction based Improved soldering quality without pollution to module



#### Enhanced Mechanical Load

Certified to withstand wind load (2400 Pascal) and snow load (5400 Pascal)

#### IDEAL FOR



Residential



Commercial



Utility



Off-grid

#### CERTIFICATION

IEC 62804 (PID) | IEC 61701 (Salt Mist) | IEC 61726 (Ammonia) | IEC 62782 (DMLT)  
IEC 61853-1 & 2 (Panfile & IAM) | LID, LETID | IEC 60068 (Sand & Dust) | IEC 61215  
IEC 62759 (Transportation) | CEC, INMETRO, CE | IEC 61730 | UL 61730



India's Second Largest Integrated Solar PV Cell and Module Manufacturer | Available in All Black Range

## MSM Energy Renewables Private Limited

## MSM Energy Enterprises

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## SOLAR PV MODULE (DCR/NON-DCR) 144 HALF CUT MONO PERC CELL

BIFACIAL TRANSPARENT BACKSHEET 525-555 W

### ELECTRICAL CHARACTERISTICS(STC)

| MODULE TYPE                 | PE 525HB        | PE 530HB | PE 535HB | PE 540HB | PE 545HB | PE 550HB | PE 555HB |
|-----------------------------|-----------------|----------|----------|----------|----------|----------|----------|
| Maximum Power (Pmp)         | 525             | 530      | 535      | 540      | 545      | 550      | 555      |
| Open Circuit Voltage (Voc)  | 49.33           | 49.43    | 49.51    | 49.68    | 49.76    | 49.82    | 49.88    |
| Short Circuit Current (Isc) | 13.63           | 13.70    | 13.82    | 13.94    | 13.99    | 14.06    | 14.12    |
| Maximum Power Voltage (Vmp) | 40.93           | 41.02    | 41.11    | 41.21    | 41.30    | 41.41    | 41.41    |
| Maximum Power Current (Imp) | 12.83           | 12.93    | 13.03    | 13.11    | 13.21    | 13.29    | 13.40    |
| Module Efficiency (nm)      | 20.32           | 20.52    | 20.71    | 20.90    | 21.10    | 21.29    | 21.48    |
| Power Tolerance             | (-0,+5W)        |          |          |          |          |          |          |
| Maximum System Voltage      | 1500V(UL & IEC) |          |          |          |          |          |          |
| Maximum Series Fuse Rating  | 25 Amp          |          |          |          |          |          |          |

\*STC Irradiance 1000W/m<sup>2</sup>, Module Temperature 25°C and AM 1.5

Measuring Tolerance: ±3%

### ELECTRICAL CHARACTERISTICS(NOCT)

| MODULE TYPE                 | PE 525HB | PE 530HB | PE 535HB | PE 540HB | PE 545HB | PE 550HB | PE 555HB |
|-----------------------------|----------|----------|----------|----------|----------|----------|----------|
| Maximum Power (Pmp)         | 386      | 390      | 394      | 397      | 401      | 405      | 408      |
| Open Circuit Voltage (Voc)  | 46.09    | 46.19    | 46.26    | 46.42    | 46.49    | 46.55    | 46.61    |
| Short Circuit Current (Isc) | 10.87    | 10.92    | 11.02    | 11.11    | 11.15    | 11.21    | 11.26    |
| Maximum Power Voltage (Vmp) | 37.98    | 38.06    | 38.15    | 38.24    | 38.32    | 38.42    | 38.42    |
| Maximum Power Current (Imp) | 10.17    | 10.24    | 10.32    | 10.39    | 10.46    | 10.53    | 10.62    |
| Module Efficiency (nm)      | 14.95    | 15.09    | 15.23    | 15.38    | 15.52    | 15.66    | 15.76    |

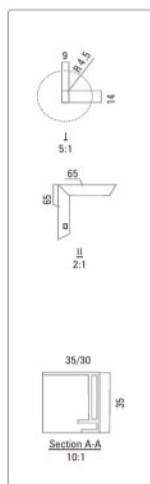
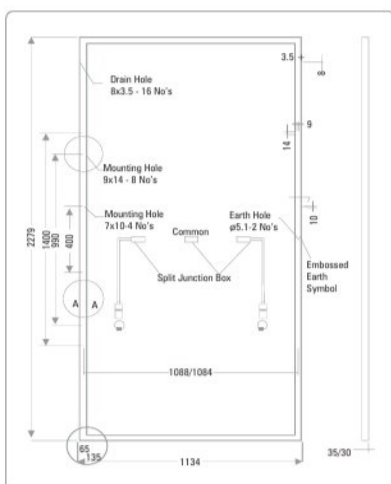
\*NOCT- Irradiance 800 W/m<sup>2</sup>, AM 1.5, Ambient Temperature 25°C and Wind speed 1m/s

Measuring Tolerance: ±3%

| BIFACIAL GAIN (70±10%) | PE 525HB | PE 530HB | PE 535HB | PE 540HB | PE 545HB | PE 550HB | PE 555HB |
|------------------------|----------|----------|----------|----------|----------|----------|----------|
| 10% Power Pmp          | 577.5    | 583.0    | 588.5    | 594.0    | 599.5    | 605.0    | 610.5    |
| 20% Power Pmp          | 630.0    | 636.0    | 642.0    | 648.0    | 654.0    | 660.0    | 666      |
| 30% Power Pmp          | 682.5    | 689.0    | 695.5    | 702.0    | 708.5    | 715.0    | 721.5    |

• Bifacial gains depends on the power plant design and albedo of installation site  
• Power Bifaciality = Pmax(Rear)/Pmax(Front) and Pmax Front are tested under STC

Measuring Tolerance: ±3%



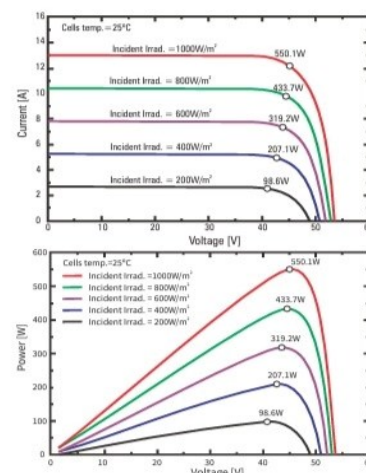
### TEMPERATURE CHARACTERISTICS

|                                    |                 |
|------------------------------------|-----------------|
| Pmax Temperature Coefficient       | -0.35%/°C       |
| Voc Temperature Coefficient        | -0.27%/°C       |
| Isc Temperature Coefficient        | 0.04%/°C        |
| Operating Temperature              | -40°C To + 85°C |
| Nominal Operating Cell Temperature | 42 ± 3° C       |

#### Product Certificates\*

IEC 61215, 61730/ INMETRO

UL 61730/IEC 61701/IEC 62716/IEC 60068-2-68



### MECHANICAL SPECIFICATIONS

|                     |                                                     |
|---------------------|-----------------------------------------------------|
| External Dimensions | 2278(±2mm) x 1134 (±2mm) x 35(±1mm)                 |
| Weight              | 34 (± 3%) Kg                                        |
| Solar Cells         | 10 BB, Mono PERC - crystalline 91mm x 182mm         |
| Front Glass         | 3.2 mm, High Transmission, Low Iron, Tempered Glass |
| Rear Cover          | High Transparent Backsheet                          |
| Frame               | Anodized Aluminium Alloy (Silver/Black)             |
| Junction Box        | 3 Split, IP 68 Rated                                |
| Connector           | Mc4 Compatible                                      |
| Mechanical Load     | 5400 Pa For Snow Load, 2400 Pa Wind Load            |
| Fire Performance    | TYPE 29 ( UL 61730) Or Class C (IEC 61730)          |
| Output Cable        | 4.0 mm <sup>2</sup><br>400 mm Length                |

### FRAME PROFILE 35X35 AND 35X30MM

### PACKING CONFIGURATION

| Container             | 20' GP | 32'GP | 40'HQ |
|-----------------------|--------|-------|-------|
| Pieces per Pallet     | 31     | 31    | 31    |
| Pallets per Container | 8      | 16    | 20    |
| Pieces per Container  | 248    | 496   | 620   |

**FIRST YEAR DEGRADATION < 2.0%**

**YEAR 2-30 POWER DEGRADATION < 0.45%**

## MSM Energy Renewables Private Limited MSM Energy Enterprises

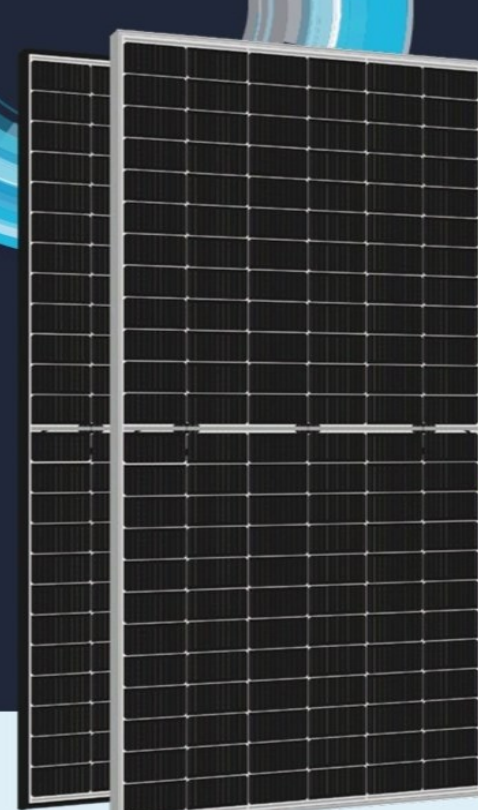
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**adani**  
Solar

# ELAN SHINE TOPCON Series

N-type  
Bifacial Transparent Backsheet Modules

ASB-M10-144-AAA (AAA=550-575)  
144 Cells | 550-575 Wp | Gen-II

**575+ Wp**  
Maximum Power Output

**22.28%**  
Maximum Efficiency

**0~+5W**  
Power Tolerance

### Highlights

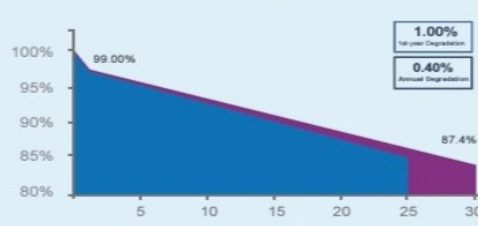
-  **Up to 30% Additional Power Gain** when compared with conventional P-type module
-  **No LID Loss** - Higher power generation
-  **Better Output In Low Irradiance**- Higher power output even under low-light environments like on cloudy or foggy days
-  **Better Temperature Coefficient**- Higher power generation under higher ambient temperature conditions
-  **Bifaciality Factor 80 ± 5 %**

**Delivers Reliable Performance Over Time**

- Full-automatic facility and industry-leading technology
- Best-in-class durability and reliability

### Linear Performance Warranty

■ Adani Linear Warranty   ■ STD Linear Warranty



|       |                      |
|-------|----------------------|
| 1.00% | 1st year Degradation |
| 0.40% | Annual Degradation   |

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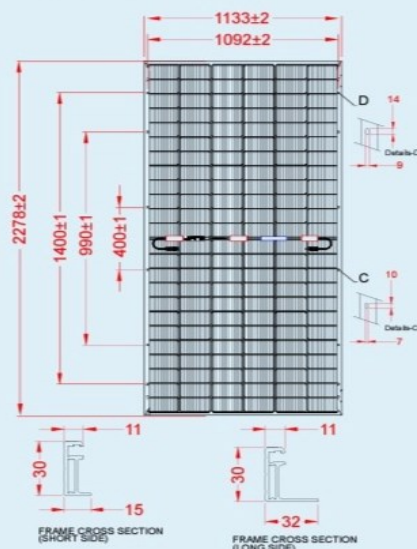


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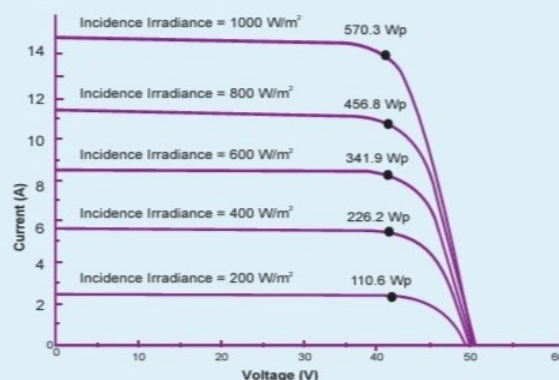
Dimensions in mm



## Technical Data

Multi Irradiance Curve  
Bifacial M10-144 HC Cell Module

Cell temp: 25°C



### Electrical data - All data measured to STC\*

| Electrical Specification       | Only front (STC) |       |       |       |       |       |
|--------------------------------|------------------|-------|-------|-------|-------|-------|
| Peak power, Pmax(Wp)           | 550              | 555   | 560   | 565   | 570   | 575   |
| Maximum voltage, Vmpp (V)      | 42.00            | 42.20 | 42.40 | 42.60 | 42.80 | 43.00 |
| Maximum current, Impp (A)      | 13.10            | 13.16 | 13.21 | 13.27 | 13.32 | 13.38 |
| Open circuit voltage, Voc (V)  | 50.20            | 50.40 | 50.60 | 50.80 | 51.00 | 51.20 |
| Short circuit current, Isc (A) | 13.87            | 13.93 | 13.99 | 14.0  | 14.11 | 14.17 |
| Module efficiency (%)          | 21.3             | 21.5  | 21.7  | 21.9  | 22.1  | 22.3  |

\*STC: Irradiance 1000 W/m², cell temperature 25°C, Air mass AM 1.5 according to EN 60904-3. Average efficiency reduction is approx. 3% at 200 W/m² according to EN 60904-1. Except Pmp, all other parameter have tolerance of +/3%, measurement uncertainty <3%.

### Electrical Characteristics with different rear side power gain (Reference 560 Wp Front)

| Electrical Specification            | Pmax gain from rear side <sup>Δ</sup> |       |       |       |       |
|-------------------------------------|---------------------------------------|-------|-------|-------|-------|
| Bifaciality Gain                    | 10%                                   | 15%   | 20%   | 25%   | 30%   |
| Peak power, (0 ~+ 4.99 Wp) Pmax(Wp) | 616                                   | 644   | 672   | 700   | 728   |
| Maximum voltage, Vmpp (V)           | 43.12                                 | 43.22 | 43.32 | 43.42 | 43.52 |
| Maximum current, Impp (A)           | 14.29                                 | 14.91 | 15.53 | 16.15 | 16.77 |
| Open circuit voltage, Voc (V)       | 50.90                                 | 51.00 | 51.10 | 51.20 | 51.30 |
| Short circuit current, Isc (A)      | 15.39                                 | 16.08 | 16.78 | 17.49 | 18.18 |
| Module efficiency (%)               | 23.8                                  | 24.9  | 26.0  | 27.1  | 28.20 |

Δ Power gain from rear side depends upon the ground reflectance (Albedo) & Bifaciality factor.

### Packaging Configuration

|                     |       |
|---------------------|-------|
| Container           | 40'HC |
| Pallets / Container | 20    |
| Pieces / Container  | 720   |

#### Note:

- The specifications included in this datasheet are subject to change without notice.
- The electrical data given here is for reference purpose only.
- Please confirm your exact requirements with the sales representative while placing your order.

#### Caution:

Please read safety and installation instructions before using the product.

### Temperature co-efficients (Tc) and permissible operating conditions

|                                 |                     |
|---------------------------------|---------------------|
| Tc of open circuit voltage (β)  | -0.26% /°C          |
| Tc of short circuit current (α) | 0.046% /°C          |
| Tc of power (γ)                 | -0.31% /°C          |
| Maximum system voltage          | 1500 VDC (IEC & UL) |
| NOCT                            | 45°C ± 2°C          |
| Temperature range               | -40°C to + 85°C     |

### Mechanical data

|                                   |                                                |
|-----------------------------------|------------------------------------------------|
| Length                            | 2278 mm                                        |
| Width                             | 1133 mm                                        |
| Height                            | 30 mm                                          |
| Weight                            | 28 kg                                          |
| Junction box                      | IP68                                           |
| Cable and connectors              | 300 mm length cable, MC4 compatible connectors |
| Application class                 | Class A (Safety class II)                      |
| Superstrate                       | High Transmission ARC glass 3.2 mm             |
| Cells                             | N-type Bifacial 144 Half-cut cell              |
| Encapsulation                     | High volume resistivity and low MVTR           |
| Substrate                         | Transparent / Patterned Backsheet              |
| Frame                             | Anodized Frame                                 |
| Design Mechanical load            | 3600 Pa-downward; 1600 Pa-Upward               |
| Safety Factor for Mechanical load | 1.5                                            |
| Maximum series fuse rating        | 30 A                                           |

#### #Warranty:

Please read Adani solar warranty documents thoroughly.

MSM/MDL/PM/Gen/Rev03

### Warranty and certifications

Product warranty<sup>#</sup> 12 years of product warranty

Performance warranty<sup>#</sup> Power degradation <1.0% in first year <0.40% / year in 2-30 years

Approvals and certificates: IEC 61215, IEC 61730, UL 61730, BIS, IEC 61853-1, IEC 62782, IEC 61853-2, IEC 61701, IEC 60068-2-68, IEC 62716

<sup>#</sup>Few certifications are under process



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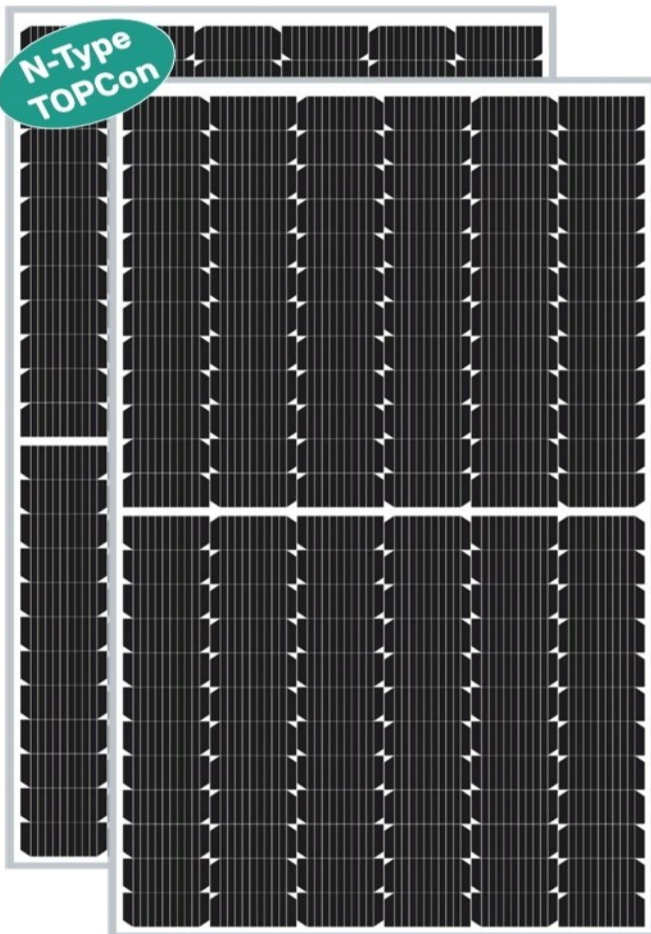
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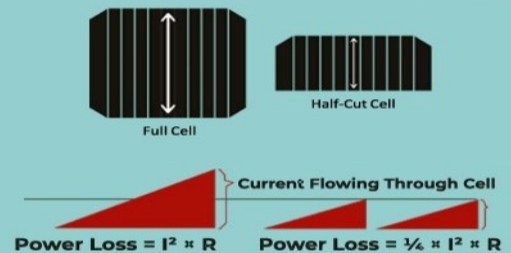
## **SOLAR MODULES : TOPCon Monofacial** **580 - 590 Wp | G2X N-Type 144 Cells** Ideal for Utility & Commercial Installations



### Round Ribbon for Higher Light Utilization



### Half-Cut Cells for Lower Electrical Losses



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| ELECTRICAL DATA (STC)         |            |            |            |
|-------------------------------|------------|------------|------------|
| Model No.                     | G2X580-HAD | G2X585-HAD | G2X590-HAD |
| Peak Power Output -Pmax(Wp)   | 580        | 585        | 590        |
| Power Output Tolerance (Wp)   | 0 ~ +5     | 0 ~ +5     | 0 ~ +5     |
| Open Circuit Voltage-Voc(V)   | 50.10      | 50.20      | 50.30      |
| Maximum Power Voltage-Vmpp(V) | 42.65      | 42.75      | 42.85      |
| Short circuit current-Isc(A)  | 14.54      | 14.64      | 14.74      |
| Maximum Power Current-Impp(A) | 13.60      | 13.68      | 13.77      |
| Module Efficiency (%)         | 22.45      | 22.65      | 22.84      |
| Fill Factor (%)               | 79.62      | 79.60      | 79.58      |

\*(STC) = 1000 W/m<sup>2</sup> Irradiance, Air Mass 1.5 and 25°C Cell Temperature

| ELECTRICAL DATA (NOCT)        |        |        |        |
|-------------------------------|--------|--------|--------|
| Peak Power Output -Pmax(Wp)   | 430.94 | 434.66 | 438.37 |
| Open Circuit Current-Voc(V)   | 46.59  | 46.69  | 46.78  |
| Maximum Power Voltage-Vmpp(V) | 38.94  | 39.03  | 39.12  |
| Short circuit current-Isc(A)  | 11.81  | 11.89  | 11.97  |
| Maximum Power Current-Impp(A) | 11.04  | 11.11  | 11.18  |

\*(NOCT) = 800 W/ m<sup>2</sup> Irradiance, Air Mass 1.5, Ambient Temperature 20°C and Wind Speed 1 m/s

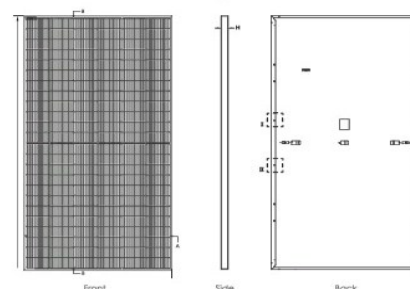
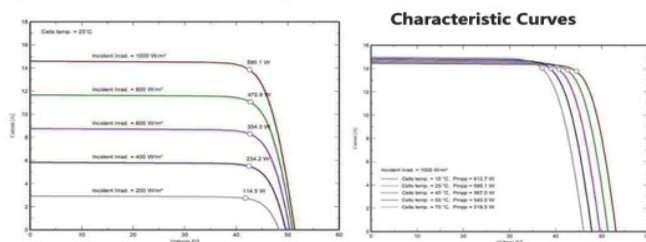
| MECHANICAL DATA                           |                                                             |
|-------------------------------------------|-------------------------------------------------------------|
| Solar Cells Per Module (units)            | 144                                                         |
| Cells Configuration (Matrix)              | 12 × 6    12 × 6                                            |
| Cell Size(mm)                             | 91 × 182                                                    |
| Length(L) × Width(W) × Thickness(T) in mm | 2278 × 1134 × 35                                            |
| Area of module (sq-m)                     | 2.583252                                                    |
| Weight of module(kg)                      | 27.1 ± 2%                                                   |
| Cell Type                                 | N-type Mono-crystalline (91 × 182)                          |
| Junction Box                              | IP 68 rated Split Junction Box with Individual Bypass Diode |
| Connector                                 | IP 68 rated MC4 Compatible                                  |
| Front Cover(Glass)                        | 3.2 mm Low Iron High Transmission AR Coated Tempered Glass  |
| Back Cover (Backsheet)                    | Poly Vinyl Fluoride (Composite Film)                        |
| Encapsulant                               | PID Free and UV Resistant                                   |
| Frame                                     | Anodized Aluminum Frame                                     |
| Application Class Rating                  | Class A                                                     |
| Safety Class Rating                       | Class II                                                    |
| Fire Safety                               | Class C                                                     |
| Mechanical Load                           | Snow Load 5400 Pa, Wind Load 2400 Pa                        |
| Cable Type                                | 4 mm <sup>2</sup>                                           |

| Temperature Ratings             |                |
|---------------------------------|----------------|
| NOCT                            | 45°C ± 2°C     |
| Temperature Coefficient of Pmax | -0.29% /°C     |
| Temperature Coefficient of Voc  | -0.25% /°C     |
| Temperature coefficient of Isc  | 0.045% /°C     |
| Temperature Range               | -40°C to +85°C |
| Maximum System Voltage          | 1500V DC       |
| Maximum Series Fuse Rating      | 25A            |

| PACKING CONFIGURATION |        |
|-----------------------|--------|
| Container             | 40' HQ |
| Pieces per Pallet     | 31     |
| Pallets per container | 20     |
| Pieces per container  | 620    |

**12 Years Product Warranty**  
**30 Years Power Output Warranty**

**Mechanical Drawing of Solar Panel**



\*Value at Standard Testing Conditions (STC) :Temp 25 Degrees C,Irradiance 1000W/m<sup>2</sup>, AM 1.5

\*Please confirm mounting dimensions and ratings with our sales team before ordering Performance warranty

\*\* Linear power warranty for 25 years with 2.5% for 1st year, 1st year degradation and 0.75% from year 2 to year 25

Approvals IEC 61730-1&2\*, IEC 61701\*

**Kirloskar Solar Technologies Pvt. Ltd.**  
A Kirloskar Group Company

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Call: 83088 00595, 88382 91322 (South India)

Email: solarenergy@kirloskar.com, sales1@kirloskar.com

Website: www.kirloskarsolar.com

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**MSM Energy Enterprises**

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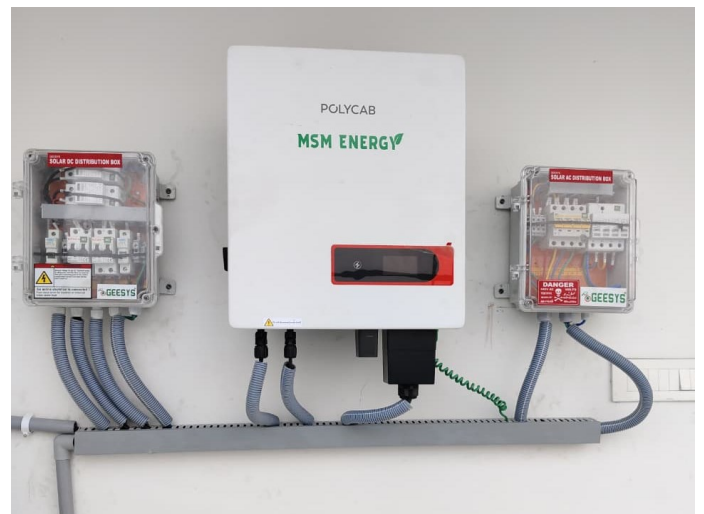
Showroom: 63 Avarampalayam Road, Coimbatore -641044

Our Other Outlets; Aruppukottai / Ramanathapuram/Keelakarai /Chennai

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## Few Of Our Projects: (Domestic)



### MSM Energy Renewables Private Limited MSM Energy Enterprises

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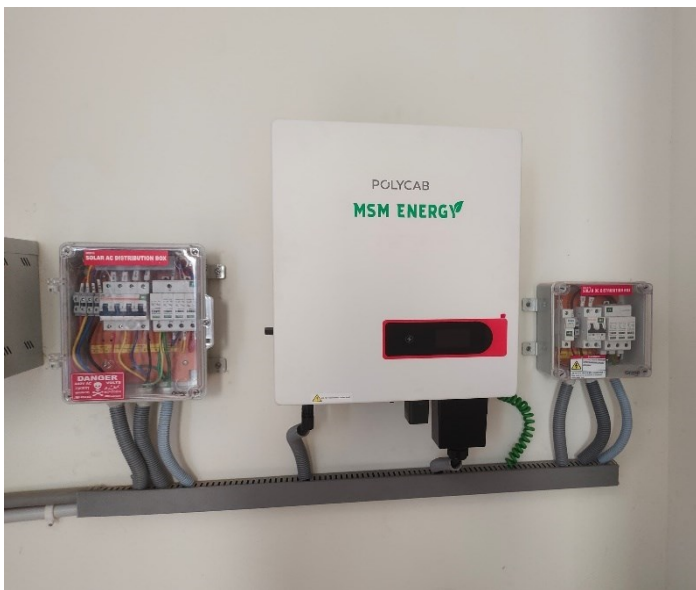
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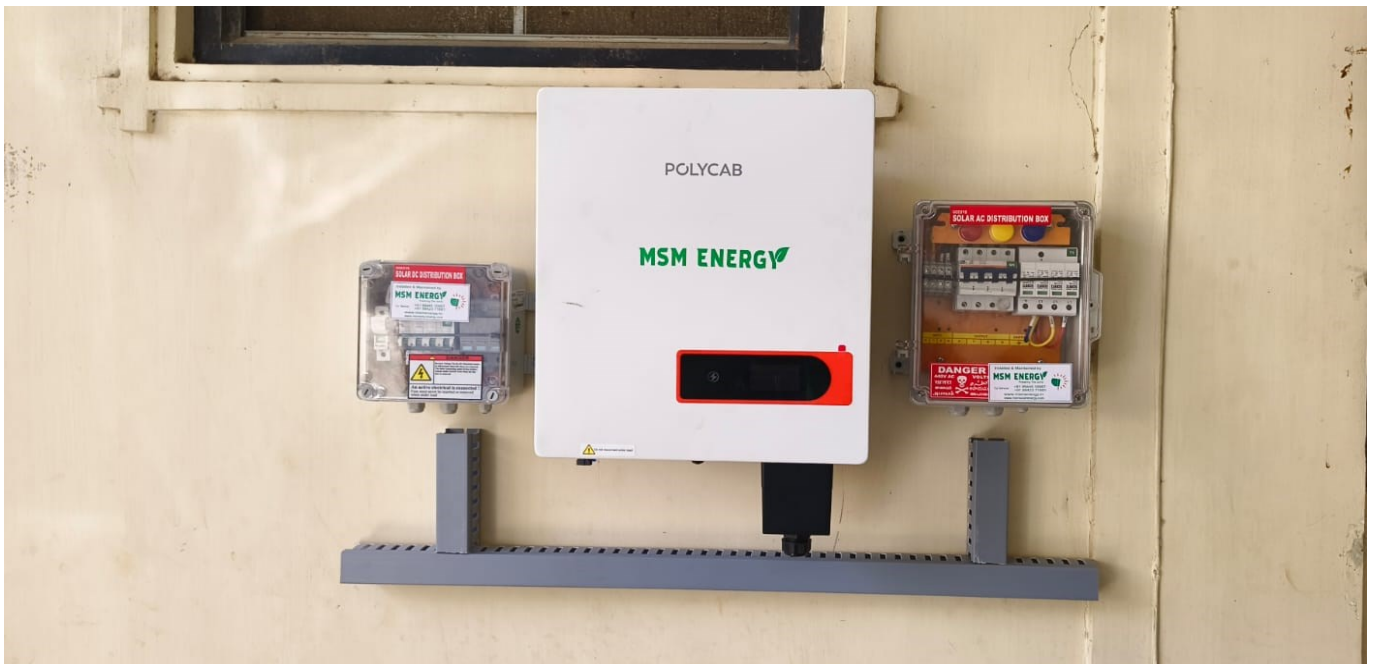
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## Commercial Projects:



### **MSM Energy Renewables Private Limited** **MSM Energy Enterprises**

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**Sub: 1-10 KW Solar Subsidy Scheme from PM – Surya Ghar:  
Muft Bijli Yojana**

Respected Sir,

We Sincerely Thank You Very Much for The Kind Courtesy Extended Towards Us.

Our Company is Providing Complete Turnkey Solution for Solar Right from Feasibility Study, Selection of Technology, Installation of Solar System, Developing Evacuation System and Comprehensive Operation & Maintenance.

**PRICE DETAILS: (SUBSIDY SCHEME)**

| S.NO | CAPACITY | ELITE           | PREMIUM         | PREMIUM +       | SUBSIDY |
|------|----------|-----------------|-----------------|-----------------|---------|
| 1    | 1KW      | 72,500 (1 Ph)   | 77,500 (1 Ph)   | 87,500 (1 Ph)   | 30,000  |
| 2    | 2KW      | 1,34,000 (1 Ph) | 1,44,000 (1 Ph) | 1,64,000 (1 Ph) | 60,000  |
| 3    | 3KW      | 1,65,000 (1 Ph) | 1,80,000 (1 Ph) | 1,95,000 (1 Ph) | 78,000  |
| 4    | 4KW      | 2,20,000 (1 Ph) | 2,40,000 (1 Ph) | 2,60,000 (1 Ph) | 78,000  |
| 5    | 5KW      | 2,75,000 (1 Ph) | 3,00,000 (1 Ph) | 3,25,000 (1 Ph) | 78,000  |
| 6    | 5KW      | 2,90,000 (3 Ph) | 3,15,000 (3 Ph) | 3,40,000 (1 Ph) | 78,000  |
| 7    | 6KW      | 3,20,000 (3 Ph) | 3,30,000 (3 Ph) | 3,90,000 (3 Ph) | 78,000  |
| 8    | 7KW      | 3,65,000 (3 Ph) | 3,85,000 (3 Ph) | 4,55,000 (3 Ph) | 78,000  |
| 9    | 8KW      | 4,10,000 (3 Ph) | 4,40,000 (3 Ph) | 5,20,000 (3 Ph) | 78,000  |
| 10   | 9KW      | 4,60,000 (3 Ph) | 4,95,000 (3 Ph) | 5,85,000 (3 Ph) | 78,000  |
| 11   | 10KW     | 5,00,000 (3 Ph) | 5,50,000 (3 Ph) | 6,50,000 (3 Ph) | 78,000  |

**NOTES:**

1. PREMIUM MODEL READY STOCK IS AVAILABLE
2. ELITE AND PREMIUM+ MODEL AFTER THE 100% PAYMENT WE NEED 15-20 DAYS TIME TO INSTALL.
3. AREA NEEDED PER KW APPROXIMATELY 70-80 Sq feet

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## PRICE DETAILS: (NON-SUBSIDY SCHEME)

| S.NO | CAPACITY | ELITE           | PREMIUM         | PREMIUM+        |
|------|----------|-----------------|-----------------|-----------------|
| 1    | 1KW      | 62,500 (1 Ph)   | 67,500 (1 Ph)   | 77,500 (1 Ph)   |
| 2    | 2KW      | 1,24,000 (1 Ph) | 1,34,000 (1 Ph) | 1,54,000 (1 Ph) |
| 3    | 3KW      | 1,60,500 (1 Ph) | 1,70,000 (1 Ph) | 1,85,000 (1 Ph) |
| 4    | 4KW      | 1,98,000 (1 Ph) | 2,33,500 (1 Ph) | 2,58,000 (1 Ph) |
| 5    | 5KW      | 2,25,000 (1 Ph) | 3,02,000 (1 Ph) | 3,55,000 (1 Ph) |
| 6    | 5KW      | 2,35,000 (3 Ph) | 3,17,000 (3 Ph) | 3,85,000 (3 Ph) |
| 7    | 6KW      | 2,57,500 (3 Ph) | 3,42,000 (3 Ph) | 4,17,000 (3 Ph) |
| 8    | 7KW      | 3,29,000 (3 Ph) | 3,74,000 (3 Ph) | 4,34,000 (3 Ph) |
| 9    | 8KW      | 3,71,000 (3 Ph) | 4,06,000 (3 Ph) | 4,56,000 (3 Ph) |
| 10   | 9KW      | 3,83,000 (3 Ph) | 4,28,000 (3 Ph) | 4,78,000 (3 Ph) |
| 11   | 10KW     | 4,05,000 (3 Ph) | 4,55,000 (3 Ph) | 4,95,000 (3 Ph) |

### NOTES:

1. PREMIUM MODEL READY STOCK IS AVAILABLE
2. ELITE AND PREMIUM+ MODEL AFTER THE 100% PAYMENT WE NEED 15-20 DAYS TIME TO INSTALL.
3. **AREA NEEDED PER KW APPROXIMATELY 70-80 Sq feet**

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## BRAND DETIALS: (SOLAR PANEL, SOLAR INVERTER)

### ELITE MODELS:

| SOLAR PANELS BRANDS                                                                      | INVERTER BRANDS                                      |
|------------------------------------------------------------------------------------------|------------------------------------------------------|
| UTL/ MICROTEK/ LUMINOUS/ EXIDE/<br>GOLDI/ EMMVE/ RAYSON/ SATVIK/<br>RENESYS/ PAHAL/ LOOM | UTL/ MICROTEK/ LUMINOUS/<br>PV BLINK / VSOLE / LOOM. |

### PREMIUM:

| SOLAR PANELS BRANDS     | INVERTER BRANDS      |
|-------------------------|----------------------|
| PREMIER/ WAAREE/ ADANI. | POLYCAB/ DYE/ WAREE. |

### PREMIUM+:

| SOLAR PANELS BRANDS       | INVERTER BRANDS           |
|---------------------------|---------------------------|
| TATA/ PANASONIC/ V-GUARD. | TATA/ PANASONIC/ V-GUARD. |

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## Bill of Material for 1-10 Kw Solar On-grid System:

| S.No | PARTICULARS                                                                                                            | QTY             | Make                                                                                         | Warranty                                       |
|------|------------------------------------------------------------------------------------------------------------------------|-----------------|----------------------------------------------------------------------------------------------|------------------------------------------------|
| 1    | Solar Module 540 to 590 WP<br>Mono Berg/<br>Bifacials/Topcon -144 Cells                                                | Needed Nos      | Premier /Adani /Kirloskar /Waree<br>/Vikram/Gowtham/Loom/Goldi<br>/Luminous /Microtek/Vguard | 30 Years Without Physical Damages (15+15years) |
| 2    | Module Mounting Structure/ Mini Rails                                                                                  | PV Sets         | GI Pre Galvanised / Aluminium (Based on the Site)                                            | Standard Warranty                              |
| 3    | 4 Sq.mm D.C Cable<br>6 Sq.mm A.C Cable                                                                                 | Needed Mtr      | Polycab /Finolex                                                                             | Standard Warranty dc                           |
| 4    | DC / AC DB BOX EACH ONE / 3 PHASE                                                                                      | 2 Nos           | Phoenix /Havells/                                                                            | Standard Warranty                              |
| 5    | Needed kw 1,3 Phase On-grid Invertor                                                                                   | 1 No            | Polycab/ Growatt / Dye /Sungrow /havel's /Vsole                                              | 10 years Warranty                              |
| 6    | MC4 Connector & Branch Connector                                                                                       | Pair            | Staubli                                                                                      | 5 Years Warranty                               |
| 7    | 1.Earthing Set (Copper Bonded Rod 17.2 mm 250 Micron 1-1.5 mtrs with Chemical bag)<br>2.Lighting Arrestor Complete Set | 2 Sets<br>1 Set | Excel /Perfect /Infinity Earthlings                                                          | Standard Warranty                              |
| 8    | Installation And Commissioning                                                                                         | Needed KW       | MSM Team                                                                                     | Standard Warranty                              |

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## Scope Matrix:

| Scope of Work |                                                                                                                   |                                     |                                     |
|---------------|-------------------------------------------------------------------------------------------------------------------|-------------------------------------|-------------------------------------|
| Sr. No.       | Description                                                                                                       | MSM Energy                          | Customer                            |
| 1             | Design and Engineering                                                                                            | <input checked="" type="checkbox"/> | <input type="checkbox"/>            |
| 2             | Modules                                                                                                           | <input checked="" type="checkbox"/> | <input type="checkbox"/>            |
| 3             | Inverters                                                                                                         | <input checked="" type="checkbox"/> | <input type="checkbox"/>            |
| 4             | Module Mounting Structures                                                                                        | <input checked="" type="checkbox"/> | <input type="checkbox"/>            |
| 5             | LT Panel                                                                                                          | <input checked="" type="checkbox"/> | <input type="checkbox"/>            |
| 6             | DC Cables & Accessories                                                                                           | <input checked="" type="checkbox"/> | <input type="checkbox"/>            |
| 7             | AC Cables & Accessories                                                                                           | <input checked="" type="checkbox"/> | <input type="checkbox"/>            |
| 8             | Earthing & LA System                                                                                              | <input checked="" type="checkbox"/> | <input type="checkbox"/>            |
| 9             | Cable Tray & Accessories                                                                                          | <input checked="" type="checkbox"/> | <input type="checkbox"/>            |
| 10            | Plumbing Line required on roof (Customer to provide pressured water near installation location)                   | <input type="checkbox"/>            | <input checked="" type="checkbox"/> |
| 11            | Net Metering & CEIG Extension on Existing System (Cost Provided)                                                  | <input type="checkbox"/>            | <input checked="" type="checkbox"/> |
| 12            | Water and Electricity During Construction                                                                         | <input type="checkbox"/>            | <input checked="" type="checkbox"/> |
| 13            | Internet Connection for online data monitoring                                                                    | <input type="checkbox"/>            | <input checked="" type="checkbox"/> |
| 14            | Tree Trimming, Object Shifting, Safety & Storage for material during construction of plant                        | <input type="checkbox"/>            | <input checked="" type="checkbox"/> |
| 15            | Site Access Ladder for all Roofs                                                                                  | <input type="checkbox"/>            | <input checked="" type="checkbox"/> |
| 16            | Spare Feeder in LT Panel                                                                                          | <input type="checkbox"/>            | <input checked="" type="checkbox"/> |
| 17            | Any changes in existing infrastructure suggested by DISCOM<br>e.g. HT CT, PT, existing DISCOM meter with Testing. | <input type="checkbox"/>            | <input checked="" type="checkbox"/> |
| 18            | Roof Stability, Roof Replacement                                                                                  | <input type="checkbox"/>            | <input checked="" type="checkbox"/> |
| 19            | Skylight Covering with MS Meshes                                                                                  | <input type="checkbox"/>            | <input checked="" type="checkbox"/> |
| 20            | Any changes which are not required for plant operation but asked from Govt. authorities                           | <input type="checkbox"/>            | <input checked="" type="checkbox"/> |
| 21            | Road Cutting for Cable Crossing till meter room (If any) Civil Works                                              | <input type="checkbox"/>            | <input checked="" type="checkbox"/> |
| 22            | DG Synchronization with Solar (Cost Provided)                                                                     | <input checked="" type="checkbox"/> | <input type="checkbox"/>            |
| 23            | Power Factor / Harmonic Correction if any                                                                         | <input type="checkbox"/>            | <input checked="" type="checkbox"/> |
| 24            | Safety Line, Walkway & Handrailing (Cost Provided)                                                                | <input type="checkbox"/>            | <input checked="" type="checkbox"/> |

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## Scope Of Work & Payment Terms:

- ❖ Payment: Through IMPS/ NEFT/CHEQUE OR RTGS.
- ❖ Delivery: 10-15 Days from The Date of Purchase Order.
- ❖ Work Completion-: 15-30 Days from The Date of Commercially Cleared.
- ❖ PO.Net Metering Application Payment is in Customer Scope (Documentation Included).
- ❖ Taxes As Per Actual, As Per **GST (EXTRA)** Applicable. At The Time of Billing.
- ❖ Transportation and Installation are Extra.
- ❖ 100% Advance Payment Along with Purchase Order.
- ❖ The Above Quotation Validity only 10 Days.

| Company Bank Details: |                        |
|-----------------------|------------------------|
| Account Name          | MSM ENERGY ENTERPRISES |
| Account Number        | 6299564086             |
| Bank Name             | Indian Bank            |
| Branch                | Puliyakulam Branch     |
| IFSC Code             | IDIB000P077            |

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## ENVIRONMENTAL IMPACT:

### 1 kW Rooftop Solar System Equals

#### Yearly Environmental Impact

|                                                                                                                |                                                                                                  |                                                                                                      |
|----------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------|
|  <b>CO<sub>2</sub> Offset</b> |  <b>Planted</b> |  <b>Km Driven</b> |
| <b>1.3 Tons</b>                                                                                                | <b>38.5 Nos.</b>                                                                                 | <b>32500 Km</b>                                                                                      |

#### 25 Years Environmental Impact

|                                                                                                                 |                                                                                                   |                                                                                                        |
|-----------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------|
|  <b>CO<sub>2</sub> Offset</b> |  <b>Planted</b> |  <b>Km Driven</b> |
| <b>32.6 Tons</b>                                                                                                | <b>192.5 Nos.</b>                                                                                 | <b>1.625 Lakh</b>                                                                                      |

*Our goal is to provide clean, renewable, green energy to discerning customers such as yourself.*

*Together we can achieve the goal of making the planet a better place to live in.*

***We care about leaving a better planet for future generations!***

***Let's Make It Happen.***

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## Payment Terms:

Milestones to be cleared with GST:

100% Advance Payment.

1. **100% GST** of the Material or Service Value shall be paid along with the milestone payments as per Commercial Invoice.
2. All payments shall be done promptly as per schedule of payment against proforma invoice. Final tax invoices will be raised after technical commissioning.
3. All payments will be made by RTGS or NEFT or any other direct bank to bank transfer method. Only in exceptional cases, cheque/ banker's cheque or DD will be issued. All payments to be released within 5 days from the date of documents arrival.
4. The delay in payment, even partial, of MSM invoices beyond the agreed deadline results in the immediate effect of the interest on arrears to the extent of 18% per annum will be charged & this shall also affect the project schedule accordingly.

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## General Notes:

1. Material will be delivered with the Incoterm for site, Inclusive of Transportation cost.
2. Any other Duties such as antidumping duties are NIL as of today for modules, Inverters and Imported parts.
3. Applicable Taxes and Duties shall be levied on actual-if there is change in Government laws/Regulations, if any.
4. MSM Energy will not bear any cash flow risk for the changes and these payments will be made by Customer to MSM at the time the changes in duties and taxes are applicable for relevant purchases. Government regulation notification shall suffice the prerequisite.
5. Applicable GST rates: Solar@13.8%.
6. Degradation of solar PV modules is subject to Environmental and other site conditions.
7. After Handing Over the Project MSM Energy will take back the remaining material (if any).
8. Impact of change in GST rates/taxation rules/cess, Taxes & Duties/Import Duties/Anti-dumping/Safeguard duties etc. shall be adjusted on actual.
9. Impact of changes in Government policies, Laws, Regulation, Rules, Implementations, Interpretations of existing rules, etc. shall be adjusted at actual.
10. Inspection charges currently considered out of scope. Any third-party inspection will be charged.

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