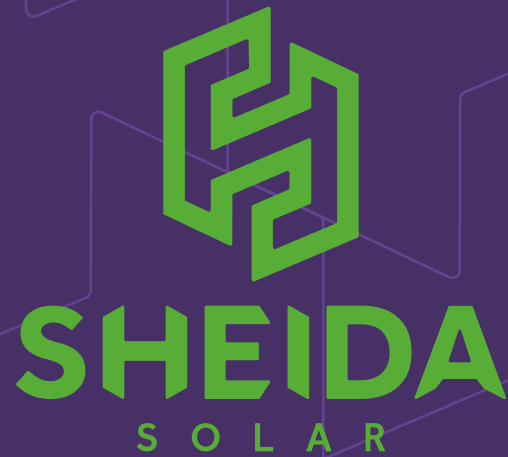




**SHEIDA**  
S O L A R

**THE FIRST TO SHINE**

شيدة للصناعات ش م م  
Sheida Industries LLC



**MADE IN OMAN**  
**Top Tier Solar Modules**

# About us



Sheida Group of Companies, a visionary force in Oman's development, is more than just a leading venture. We are a dedicated team passionate about crafting solutions that empower a brighter tomorrow. Our diverse and customizable range of high-quality products and services is meticulously tailored to meet the evolving needs of the market. But our greatest pride lies in a pioneering spirit. We are the first to launch top-tier solar PV panels manufactured entirely within Oman, a testament to our commitment to innovation and sustainability. Under the brand name Sheida Solar, we harness the power of the Omani sun, transforming it into clean, reliable energy that fuels progress for generations to come.

# OUR PHILOSOPHY



## VISION

Empowering Our Planet  
with Clean, Renewable  
Energy



## MISSION

Empowering Our Clients  
with Innovative Solar  
Solutions



## AIM

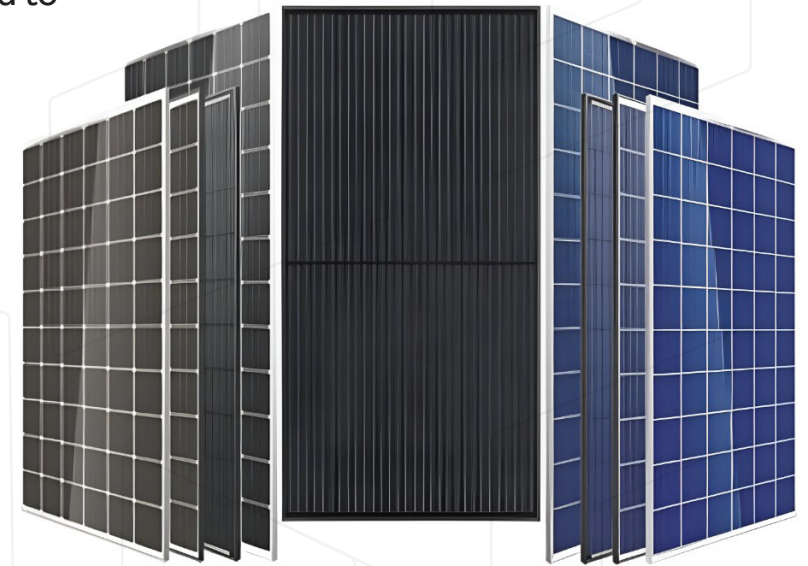
Empowering All with  
Affordable Solar Energy  
Solutions

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Sheida Industries LLC

 Sheida Solar  Sheidasolar.om

# WHY SHEIDA ?

- **Where Italian Craftsmanship Meets Cutting-Edge Tech:** Our state-of-the-art, fully automated production line, meticulously crafted in Italy, generates 80 MW of solar panels annually. With ambitious plans to scale up to 500 MW, we're committed to leading the charge in sustainable energy production.
- **Experience Meets Innovation:** Our team of experienced and qualified professionals combines World class workmanship with cutting-edge technology to ensure meticulous attention to detail at every stage.
- **Unlocking a Spectrum of Possibilities:** Discover our diverse solar panel lineup, featuring industry-leading technologies like Mono-crystalline, PERC, Bi-facial, and TOPCon. Our high-efficiency Multi Busbar modules, powered by rigorous testing and a dedicated R&D team, are leading the way in sustainable energy solutions.
- **Pioneering the Future of Solar in Oman:** Our commitment to innovation extends beyond production. Our cutting-edge facility in Oman minimizes defects and maximizes efficiency, bringing you the future of solar technology today.



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## Beyond Products

- Embarking on the Path of Renewable Energy. We are Committed towards a Smooth and Marvelous Journey.

## Tailored Design

- Your requirements will be assessed thoroughly to help in Customizing Solutions for Your Unique Needs

## Guiding Your Solar Journey

- Our Experts will Assist in exploring Government Incentives and Affordable Financing options.

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# OUR FACTORY

## 80MW MODULE PRODUCTION LINE

**80**

MW/year  
WORKING 24/7



**25**

modules/h



**25**

operators  
per shift



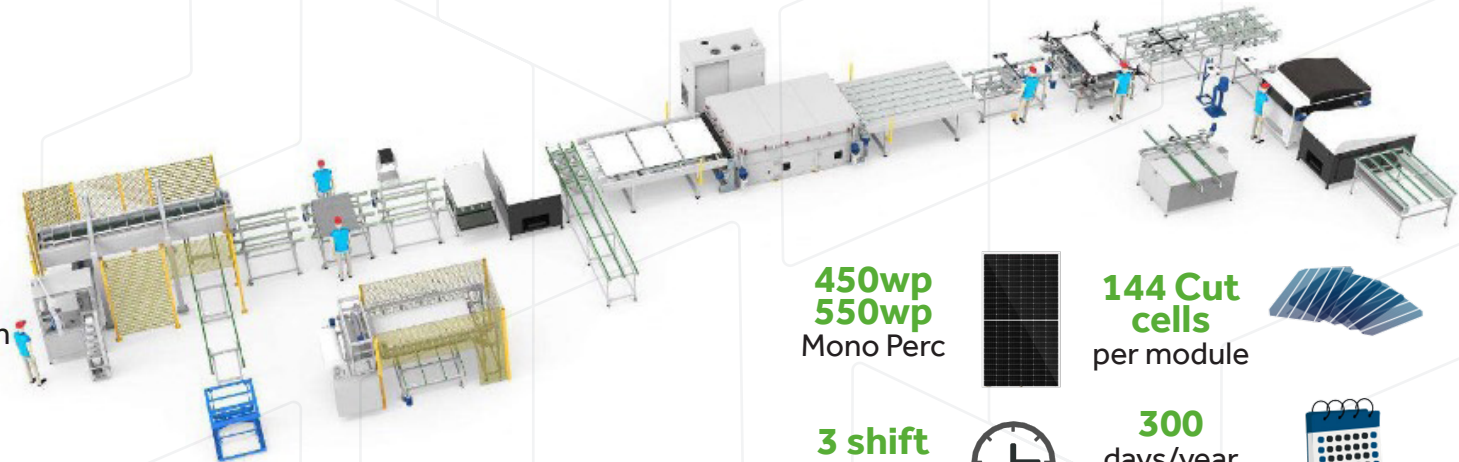
**5625**

sqm



## EQUIPMENT LIST

- Stringer Machine ETS 2500
- Eco-Weightless
- Layup ECOLAYUP R
- In-line manual bussing station
- Foil cutter machine ECOCUT 10
- In-line EL tester before lamination
- Laminator ECOLAM Max
- Trimming
- Visual 90° - Inline Inspection
- Automatic Framing
- J-box application station
- LED sun simulator + Hi-pot
- In-line EL tester after lamination



**450wp  
550wp**  
Mono Perc

**144 Cut  
cells**  
per module

**3 shift**  
of 8 hours

**300**  
days/year

**115**  
kW/h

**6 bar**  
815 nL/1'

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# OUR PRODUCTS & SERVICES



## SOLAR PV PANNELLS

Top teir solar modules made  
in Oman



## PRODUCTS

- Inverters • Batteries
- Charge Controllers
- Connectors • Mounts and Stands



## EPC

Designing  
Procurement  
Commissioning



## MAITENANCE

Large Scale Solar Plants Maitenance  
and other field services



## SOLAR SYSTEMS

On-Grid  
Off-Grid



## CONSULTANCY

Energy Saving Consultancy  
Engineering Services  
Feasibility Studies

● Available ● Upcoming

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# M6 series



## The Ideal Solution For

Rooftop arrays on commercial and industrial buildings

### **Ground-mounted Solar power plants**

Sheida Solar is one of the leading solar solution experts. We are specialized in high efficiency solar module manufacturing. Our production and technology advantage, we provide our customers with comprehensive solution for the whole life cycle of solar project.

### **Busbar Cell Technology.**

Shorter Distance Between Busbar  
Allows Better Flow of Electrons  
and reduce Power Loss.

### **Cost Effective**

Offering high value at low cost,  
Makes it one of the popular choices.  
of installers and customers  
Shorter Distance Between Busbar  
Allows Better Flow of Electrons  
and reduce Power Loss.

### **Lower BOS Costs**

Designed for high voltage  
Systems of up to 1500 VDC  
Saving balance of system costs

### **All- Weather Technology**

Optimal yields, whatever the  
Weather with excellent low-light  
and temperature behavior

### **Enduring high Performance**

Long-term yield security with  
Anti LID and Anti PID Technology,  
Hot-Spot protect and traceable Quality

### **Load Capacity Enhancement**

High durability raw material  
helps to withstand high snow (5400 Pa)  
and wind loads (2400 Pa)  
and reduce Power Loss.

### **A Reliable Investment**

15 Year Product Warranty and  
30 Year linear power output warranty  
makes it a reliable investment

Note: Specification subject to technical changes  
and tests Sheida reserves the right of final  
interpretation

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 Sheida Solar  Sheidasolar.com

# M6 series



Caution: Please read safety and installation instructions before using the product. Warranty: Linear power warranty for 30 years, with degradation up to 2.0 % in 1st year and 0.6 % year from year 2 to 30. DISCLAIMER: Specification included in the datasheet are subject to change without prior notice owing to continuous innovation on the product Development and R&D Activities. Sheida Solar reserves the right to make any adjustment to the information described here, dataset contained in this specification do not form a representative of a single module data @ T&C Apply.



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Sheida Industries LLC

## MECHANICAL SPECIFICATION

|                          |  |
|--------------------------|--|
| Dimensions (LxWxH in mm) | 2098 x 1046 x 35                             |
| Weight (kg)              | 24   |
| No. of cells             | 144 (12x6 / 12x6)                            |
| Aluminum Frame           | Sliver Anodized Aluminum Alloy               |
| Front Cover              | Low Iron Tempered Glass (3.2 mm thick)       |
| Encapsulate (EVA)Sheet   | Ethylene Vinyl Acetate free - Anti-PID       |
| Backsheet                | Double layer with Fluorine Film - PVDF       |
| Junction Box             | TUV Approved, SPLIT JB / IP 67 with 3 Bypass |
|                          | Diode & 0.40 Mtr Cable 1500 Vdc.             |
| Application class rating | Class A                                      |
| Fire safety class rating | Class II                                     |
| Mechanical load test     | 5400pa - Front; 2400pa - Back (as per IEC)   |

## ELECTRICAL PARAMETERS (STC\*)

| Model        | Pmax (W) | Voc (V) | Vmp (V) | Imp (V) | Isc (V) | Eff. (%) |
|--------------|----------|---------|---------|---------|---------|----------|
| SHD-144H-420 | 420      | 48.76   | 42.15   | 9.97    | 11.07   | 19.14    |
| SHD-144H-425 | 425      | 48.84   | 42.23   | 10.07   | 11.11   | 19.37    |
| SHD-144H-430 | 430      | 48.92   | 42.31   | 10.17   | 11.20   | 19.60    |
| SHD-144H-435 | 435      | 49.00   | 42.39   | 10.27   | 11.29   | 19.83    |
| SHD-144H-440 | 440      | 49.08   | 42.47   | 10.36   | 11.38   | 20.06    |
| SHD-144H-445 | 445      | 49.16   | 42.55   | 10.46   | 11.47   | 20.28    |
| SHD-144H-450 | 450      | 49.24   | 42.62   | 10.56   | 11.56   | 20.51    |

## ELECTRICAL PARAMETERS (NMOT\*)

| Model        | Pmax (W) | Voc (V) | Vmp (V) | Imp (V) | Isc (V) |
|--------------|----------|---------|---------|---------|---------|
| SHD-144H-420 | 309.3    | 45.58   | 39.40   | 7.85    | 8.86    |
| SHD-144H-425 | 313.0    | 45.65   | 39.47   | 7.93    | 8.89    |
| SHD-144H-430 | 316.8    | 45.73   | 39.55   | 8.01    | 8.96    |
| SHD-144H-435 | 320.5    | 45.80   | 39.62   | 8.09    | 9.03    |
| SHD-144H-440 | 324.0    | 45.87   | 39.70   | 8.16    | 9.10    |
| SHD-144H-445 | 327.7    | 45.95   | 39.77   | 8.24    | 9.17    |
| SHD-144H-450 | 331.5    | 46.02   | 39.84   | 8.32    | 9.25    |

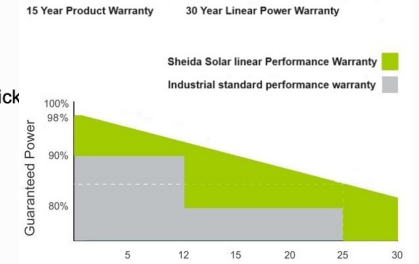
## MAXIMUM OPERATING CONDITIONS

|                            |                |
|----------------------------|----------------|
| Operation Temperature      | -40°C to +85°C |
| Maximum System Voltage     | 1500V          |
| Maximum Series Fuse Rating | 30A            |

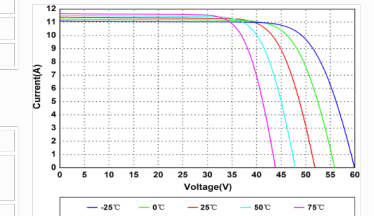
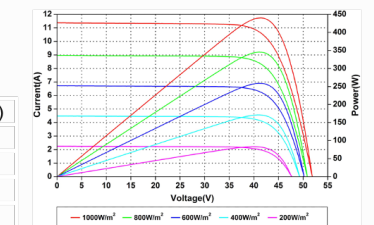
## TEMPERATURE COEFFICIENTS

|                                  |       |
|----------------------------------|-------|
| Temp. Coefficient of Pmax (%/°C) | -0.39 |
| Temp. Coefficient of Voc (%/°C)  | -0.31 |
| Temp. Coefficient of Isc (%/°C)  | 0.05  |

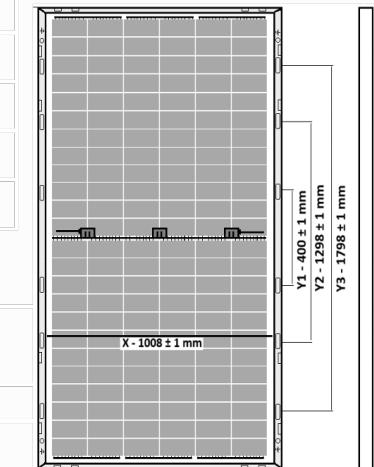
## LINEAR PERFORMANCE WARRANTY



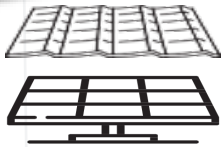
## REFERENCE IV CURVE DETAIL



## REAR VIEW & MOUNTING DETAIL



# M10 series



## The Ideal Solution For

Rooftop arrays on commercial and industrial buildings

### **Ground-mounted Solar power plants**

Sheida Solar is one of the leading solar solution experts. We are specialized in high efficiency solar module manufacturing. Our production and technology advantage, we provide our customers with comprehensive solution for the whole life cycle of solar project.

### **Multi Busbar Cell Technology.**

Shorter Distance Between Busbar  
Allows Better Flow of Electrons  
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### **Cost Effective**

Offering high value at low cost,  
Makes it one of the popular choices  
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Shorter Distance Between Busbar  
Allows Better Flow of Electrons  
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### **Lower BOS Costs**

Designed for high voltage  
Systems of up to 1500 VDC  
Saving balance of system costs

### **All- Weather Technology**

Optimal yields, whatever the  
Weather with excellent low-light  
and temperature behavior

### **Enduring high Performance**

Long-term yield security with  
Anti LID and Anti PID Technology,  
Hot-Spot protect and traceable Quality

### **Load Capacity Enhancement**

High durability raw material  
helps to withstand high snow (5400 Pa)  
and wind loads (2400 Pa)

### **A Reliable Investment**

15 Year Product Warranty and  
30 Year linear power output warranty  
makes it a reliable investment

Note: Specification subject to technical changes  
and tests Sheida reserves the right of final  
interpretation

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**Sheida Industries LLC**

 Sheida Solar  Sheidasolar.com

# M10 series



Caution: Please read safety and installation instructions before using the product. Warranty: Linear power warranty for 30 years, with degradation up to 2.0 % in 1st year and 0.6 % year from year 2 to 30. DISCLAIMER: Specification included in the datasheet are subject to change without prior notice owing to continuous innovation on the product Development and R&D Activities. Sheida Solar reserves the right to make any adjustment to the information described here, dataset contained in this specification do not form a representative of a single module data @ T&C Apply.



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Sheida Industries LLC

## MECHANICAL SPECIFICATION

|                          |   |
|--------------------------|---|
| Dimensions (LxWxH in mm) | 2284 x 1134 x 35  |
| Weight (kg)              | 26  |
| No. of cells             | 144 (12x6 / 12x6)   |
| Aluminum Frame           | Sliver Anodized Aluminum Alloy  |
| Front Cover              | Low Iron Tempered Glass (3.2 mm thick)  |
| Encapsulate              | Ethylene Vinyl Acetate (EVA)Sheet free - Anti-PID                             |
| Backsheet                | Double layer with Fluorine Film - PVDF  |
| Junction Box             | TUV Approved, SPLIT JB / IP 68 with 3 Bypass Diode & 0.40 Mtr Cable 1500 Vdc. |
| Application class rating | Class A   |
| Fire safety class rating | Class II  |
| Mechanical load test     | 5400pa - Front; 2400pa - Back (as per IEC)                                    |

## ELECTRICAL PARAMETERS (STC\*)

| Model        | Pmax (W) | Voc (V) | Vmp (V) | Imp (V) | Isc (V) | Eff. (%) |
|--------------|----------|---------|---------|---------|---------|----------|
| SHD-144H-520 | 520      | 48.57   | 41.67   | 12.49   | 13.53   | 20.08    |
| SHD-144H-525 | 525      | 48.71   | 41.81   | 12.56   | 13.59   | 20.27    |
| SHD-144H-530 | 530      | 48.85   | 41.95   | 12.64   | 13.65   | 20.46    |
| SHD-144H-535 | 535      | 48.99   | 42.09   | 12.71   | 13.71   | 20.68    |
| SHD-144H-540 | 540      | 49.13   | 42.23   | 12.79   | 13.77   | 20.88    |
| SHD-144H-545 | 545      | 49.30   | 42.37   | 12.87   | 13.83   | 21.08    |
| SHD-144H-550 | 550      | 49.47   | 42.51   | 12.95   | 13.89   | 21.28    |

- STC : Irradiance of 1000 W/m<sup>2</sup> , Cell temperature of 25°C, Air mass 1.5g
- Power measurement uncertainty is within ± 2%

## ELECTRICAL PARAMETERS (NMOT\*)

| Model        | Pmax (W) | Voc (V) | Vmp (V) | Imp (V) | Isc (V) |
|--------------|----------|---------|---------|---------|---------|
| SHD-144H-520 | 383.3    | 45.40   | 38.95   | 9.84    | 10.86   |
| SHD-144H-525 | 386.5    | 45.53   | 39.08   | 9.89    | 10.90   |
| SHD-144H-530 | 390.5    | 45.66   | 39.21   | 9.96    | 10.94   |
| SHD-144H-535 | 393.8    | 45.79   | 39.34   | 10.01   | 10.98   |
| SHD-144H-540 | 397.5    | 45.92   | 39.47   | 10.07   | 11.02   |
| SHD-144H-545 | 401.5    | 46.08   | 39.60   | 10.14   | 11.06   |
| SHD-144H-550 | 401.5    | 46.24   | 39.73   | 10.21   | 11.10   |

NOCT: Irradiance 800W/m<sup>2</sup>, ambient temperature of 20°C, Wind speed = 1 m/s.

## MAXIMUM OPERATING CONDITIONS

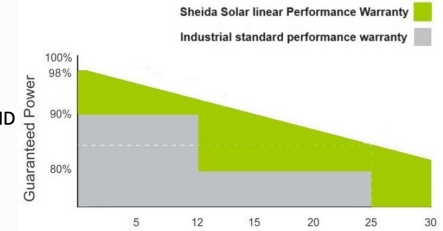
|                            |                |
|----------------------------|----------------|
| Operation Temperature      | -40°C to +85°C |
| Maximum System Voltage     | 1500V          |
| Maximum Series Fuse Rating | 30A            |

## TEMPERATURE COEFFICIENTS

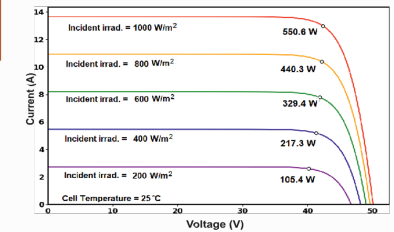
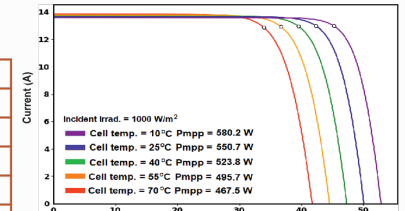
|                                  |       |
|----------------------------------|-------|
| Temp. Coefficient of Pmax (%/°C) | -0.39 |
| Temp. Coefficient of Voc (%/°C)  | -0.31 |
| Temp. Coefficient of Isc (%/°C)  | 0.05  |

## LINEAR PERFORMANCE WARRANTY

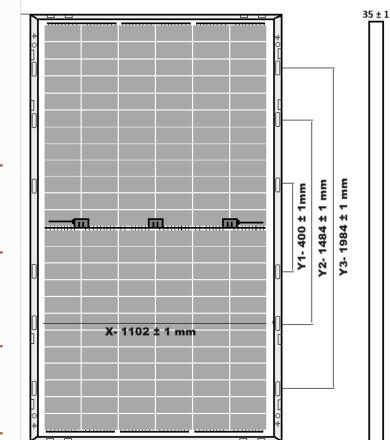
15 Year Product Warranty 30 Year Linear Power Warranty



## REFERENCE IV CURVE DETAIL



## REAR VIEW & MOUNTING DETAIL



# CERTIFICATIONS



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# FUTURE PROJECTS



2024

EPC  
LARGE SCALE SOLAR  
PROJECTS

2026

PV cell  
SOLAR CELL  
MANUFACTURING LINE

FACTORY EXPANSION  
PHASE 1  
Up to 150 MW/ Year

2025

FACTORY EXPANSION  
PHASE 2  
Up to 500 MW/ Year

2030

# CONTACT US

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**Collaborating for a Sustainable Tomorrow**

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**Email:** info@sheidasolar.com

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Sohar, North Al Batinah, Sultanate of Oman.

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sheida Industries LLC  
CR: 1054673  
P.O. Box: 129 P.C: 322 Sultanate of Oman



شيدة للصناعات ش م م  
س ت : 1054673  
ص ب : ١٢٩ الرمز البريدي ٣٢٢ سلطنة عُمان

Landline: +(968) 2202 7027 | GSM: +(968) 7960 0907 | info@sheidasolar.com | www.sheidasolar.com