





# Harvesting


THE POWER OF SUN

## KEY FEATURES


- 


5 Busbar solar cell adopts new technology to improve the efficiency of modules, offers a better aesthetic appearance, making it perfect for rooftop installation.




Higher module conversion efficiency(up to 18%)
- 


IP68 junction box for long-term weather endurance.




Positive tolerance of up to 3% delivers higher output reliability.
- 


Heavy snow load up to 5400 Pa.  
Wind load upto 2400Pa.




100% In-House automatic manufacturing.
- 

Our high-transmission glass features a unique anti-reflective coating that directs more light on the solar cells, resulting in a higher energy yield.



Certified for PID free modules.
- 

First choice for millions of banks and investors, this size is well-suited for almost all PV applications.



Advanced glass and solar cell surface texturing allow for excellent performance in low-light environments.

**ISO9001:2015, ISO 14001:2004, OHSAS 18001:2007 certified company**  
**IEC61215, IEC61730, IEC62804(PID), IEC61701, IEC62716, IEC61853 certified products**



# MONO CRYSTALLINE SOLAR PV MODULE 5BB • 60 CELLS • 275 - 295 WATT

## Electrical Parameters at Standard Test Conditions STC & NOCT

Model Type	LE18M275		LE18M280		LE18M285		LE18M290		LE18M295	
	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT
Power Output Pmax (W)	275	205.15	280	208.88	285	212.61	290	216.34	295	220.07
Voltage at Pmax V <sub>mpp</sub> (V)	32	29.89	32.25	30.12	32.47	30.33	32.73	30.57	33.04	30.86
Current at Pmax I <sub>mpp</sub> (I)	8.62	6.86	8.71	6.93	8.8	7.01	8.88	7.08	8.95	7.13
Open-circuit Voltage VOC (V)	38.02	35.74	38.25	35.96	38.43	36.12	38.65	36.33	38.92	36.58
Short-circuit Current ISC (I)	9.09	7.3	9.17	7.36	9.28	7.45	9.37	7.52	9.45	7.59
Module Efficiency % (%)	16.91		17.21		17.52		17.83		18.14	

STC : 1000 W/m<sup>2</sup> irradiance, 25°C cell temperature, AM 1.5g spectrum according to EN 60904-3.  
NOCT : 800 W/m<sup>2</sup> irradiance, ambient temperature 20°C, wind speed 1 m/sec

## Thermal Characteristics

Nominal Operating Cell Temperature	NOCT	°C	46+/-2
Temperature Coefficient of Pmax	$\gamma$	%/°C	-0.350
Temperature Coefficient of VOC	$\beta$	%/°C	-0.301
Temperature Coefficient of ISC	$\alpha$	%/°C	0.05

## Operating Conditions

Max. System Voltage	1500Vdc
Max. Series Fuse Rating	15A
Limiting Reverse Current	20A
Operating Temperature Range	-40°C to 85°C
Max. Static Load, Front	5400Pa
Max. Static Load, Back (e.g., wind)	2400Pa
Max. Hailstone Impact (diameter / velocity)	25mm / 23.3 m / s

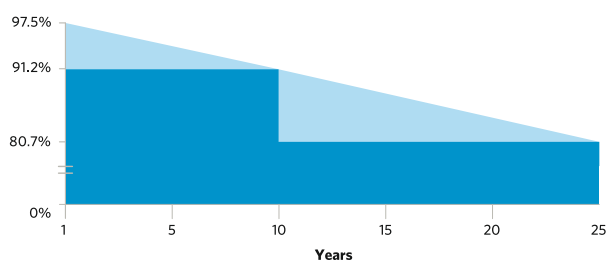
## Mechanical Data

Dimensions (L / W / H)	1641mm / 991mm / 35mm
Weight	18.3kg
Front Cover (material / thickness)	AR coated high transmission low iron tempered glass / 3.2 mm
Cell (qty. / material / dim./no. of busbars)	60 / Monocrystalline Silicon / 156.75mm x 156.75mm / 5BB
Encapsulate (material)	Ethylene vinyl acetate (EVA)
Backsheet	UV Protected
Frame (material / color)	Anodized aluminum alloy / silver
Junction Box (protection degree)	IP68, 3 bypass diodes
Cable (length / cross-sectional area)	1200mm / 4mm <sup>2</sup>
Plug Connector (type / protection degree)	MC4 / IP68

## Packaging Specifications

Number of Modules Per Pallet	30
Number of Pallets per 40' Container	28
Packaging Box Dimensions (L / W / H)	1685mm / 1115mm / 1150mm
Box Weight	600kg

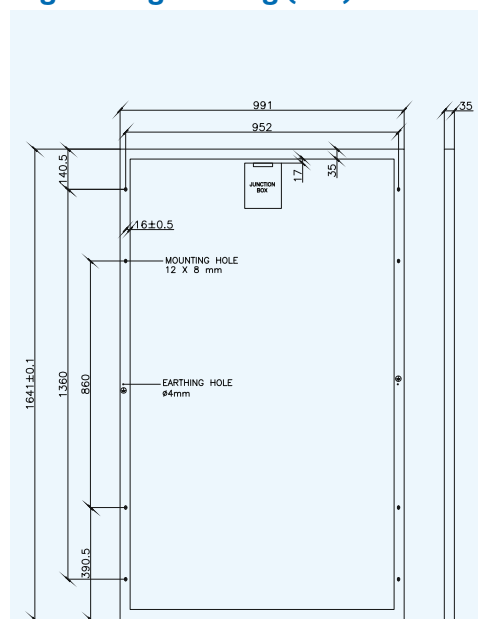
## Linear Performance Warranty



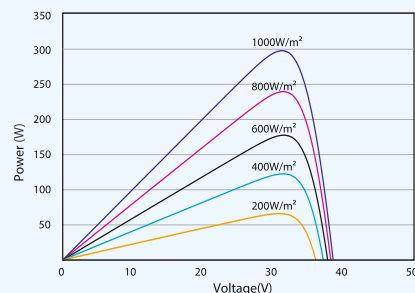
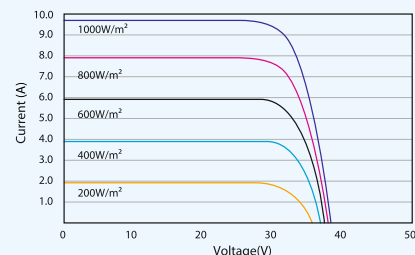
■ Lubi Linear Performance Warranty ■ Industry Standard Warranty

- 90% of the specified minimum output of the module for a 10 years period
- 10-year product warranty
- 80% of the specified minimum output of the module for a 25 years period
- 25-year linear performance warranty

## Engineering Drawing (mm)



## Electrical Performance



# MONO CRYSTALLINE SOLAR PV MODULE 5BB • 72 CELLS • 335 - 355 WATT

## Electrical Parameters at Standard Test Conditions STC & NOCT

Model Type	LE24M335		LE24M340		LE24M345		LE24M350		LE24M355	
	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT
Power Output Pmax (W)	335	249.91	340	253.64	345	257.37	350	261.1	355	264.83
Voltage at Pmax V <sub>mpp</sub> (V)	38.47	35.93	38.73	36.17	38.92	36.35	39.04	36.46	39.31	36.72
Current at Pmax I <sub>mpp</sub> (I)	8.73	6.96	8.78	7.01	8.87	7.08	8.97	7.16	9.04	7.21
Open-circuit Voltage VOC (V)	45.64	42.9	45.76	43.01	45.91	43.16	46.02	43.26	46.44	43.65
Short-circuit Current ISC (I)	9.18	7.37	9.27	7.44	9.35	7.51	9.48	7.61	9.54	7.66
Module Efficiency % (%)	17.23		17.49		17.75		18.01		18.26	

STC : 1000 W/m<sup>2</sup> irradiance, 25°C cell temperature, AM 1.5g spectrum according to EN 60904-3.  
NOCT : 800 W/m<sup>2</sup> irradiance, ambient temperature 20°C, wind speed 1 m/sec

## Thermal Characteristics

Nominal Operating Cell Temperature	NOCT	°C	46+/-2
Temperature Coefficient of Pmax	$\gamma$	%/°C	-0.350
Temperature Coefficient of VOC	$\beta$	%/°C	-0.301
Temperature Coefficient of ISC	$\alpha$	%/°C	0.05

## Operating Conditions

Max. System Voltage	1500Vdc
Max. Series Fuse Rating	15A
Limiting Reverse Current	20A
Operating Temperature Range	-40°C to 85°C
Max. Static Load, Front	5400Pa
Max. Static Load, Back (e.g., wind)	2400Pa
Max. Hailstone Impact (diameter / velocity)	25mm / 23.3 m / s

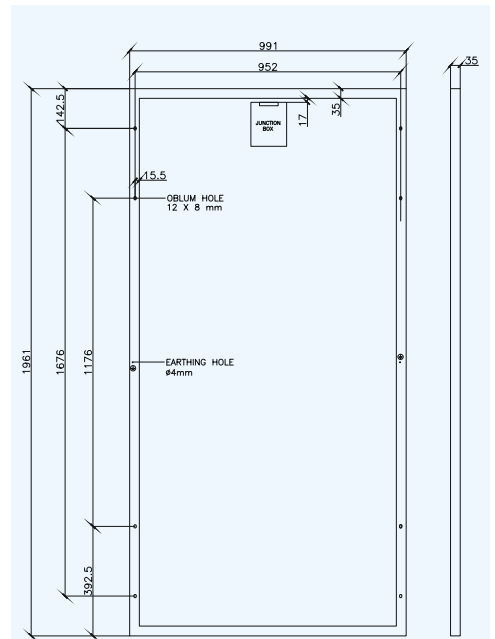
## Mechanical Data

Dimensions (L / W / H)	1961mm / 991mm / 35mm
Weight	21.5kg
Front Cover (material / thickness)	AR coated high transmission low iron tempered glass / 3.2 mm
Cell (qty. / material / dim./no. of busbars)	72 / Monocrystalline Silicon / 156.75mm x 156.75mm / 5BB
Encapsulate (material)	Ethylene vinyl acetate (EVA)
Backsheet	UV Protected
Frame (material / color)	Anodized aluminum alloy / silver
Junction Box (protection degree)	IP68, 3 bypass diodes
Cable (length / cross-sectional area)	1200mm / 4mm <sup>2</sup>
Plug Connector (type / protection degree)	MC4 / IP68

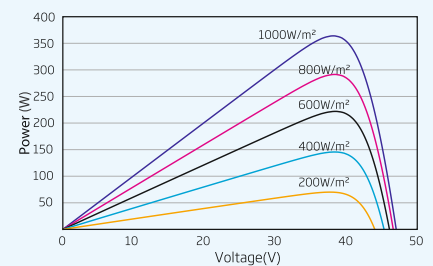
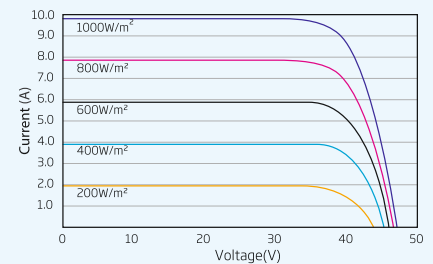
## Packaging Specifications

Number of Modules Per Pallet	30
Number of Pallets per 40' Container	24
Packaging Box Dimensions (L / W / H)	2005mm / 1115mm / 1150mm
Box Weight	700kg

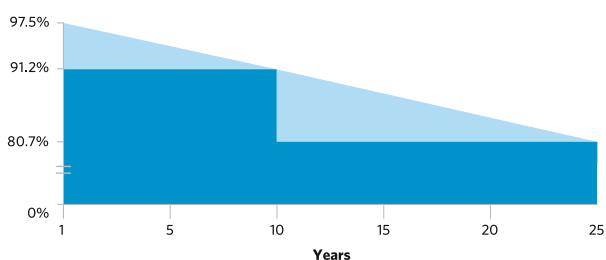
## Engineering Drawing (mm)



## Electrical Performance



## LINEAR PERFORMANCE WARRANTY



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- 25-year linear performance warranty

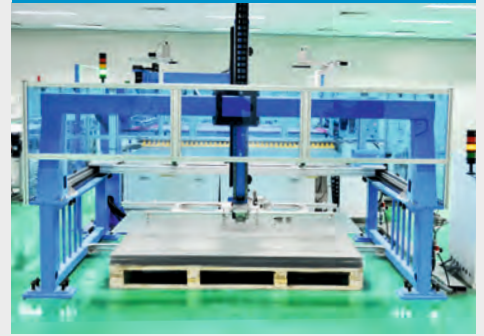
**STRINGER WITH AUTO-LAYUP**



**AUTOMATIC DOUBLE STAGE LAMINATOR**



**AUTOMATIC GLASS LOADING**



**AUTOMATIC EVA & BACKSHEET LOADING**



**FULLY AUTOMATIC CONVEYER**



**AUTOMATIC SUN-SIMULATOR**



**MANUFACTURING FACILITY**

**150 MW Fully Automatic Line**

- PV module range from 5 Wp to 335 Wp
- Facility spread over 80,000 sq ft area
- CB Report for IEC 61215, 61730 1-2
- ISO 9001-2015, ISO 14001 & OHSAS 18001 certified company
- MNRE & STQC Approval

**QUALITY ASSURANCE**

- High quality control standards
- High quality Component from International Supplier
- Enhanced reliability through use of distinctive encapsulant and back sheet
- PID free modules (85°C / 85RH for 288hrs)
- Optimized edge clearance for high quality rugged design
- 2x100 % Electroluminescence checking to ensure defect free modules.
- 100%In-line hi-pot testing (H.V+GB+IR)
- High FF for improved energy conversion efficiency
- Torsion and corrosion resistant with anodized aluminum frame
- Unique design of back-sheet for high resistance to moisture ingress

**APPLICATION**

- Megawatt Installation
  - Solar Farms : 1MW to 50MW
- Rooftop Installation
  - Manufacturing Unit
  - Commercial office
  - Housing / Domestic power packs
- Emergency Backup
- Rural Power
- Solar Pumping applications
- Telecommunication
  - Cell Tower
- On-grid large scale utility systems



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 Specifications included in this datasheet are subject to change without notice. Electrical data without guarantee. Please confirm your exact requirement with the company representative while placing your order.