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EnergyPal

Solar Panel Guide Specification Data Sheet

**Lubi Electronics
LE24P315-330
LE24P315**

Also available on the web at
EnergyPal.com/lubi-electronics-solar-panels/le24p315



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.
- 

IP68 junction box for long-term weather endurance.
- 

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

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

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

Module efficiency up to 17.00% achieved through advanced cell technology and manufacturing capabilities.
- 

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

100% In-House automatic manufacturing.
- 

Certified for PID free modules.
- 

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



POLYCRYSTALLINE SOLAR PV MODULE • 60 CELLS • 260 - 275 WATT

Electrical Parameters at Standard Test Conditions STC & NOCT

| Model Type | LE18P260 | | LE18P265 | | LE18P270 | | LE18P275 | |
|--------------------------------------|----------|--------|----------|--------|----------|--------|----------|--------|
| | STC | NOCT | STC | NOCT | STC | NOCT | STC | NOCT |
| Power Output Pmax (W) | 260 | 193.18 | 265 | 196.90 | 270 | 200.61 | 275 | 204.33 |
| Voltage at Pmax V _{mpp} (V) | 31.01 | 28.62 | 31.44 | 29.02 | 31.85 | 29.40 | 32.2 | 29.72 |
| Current at Pmax I _{mpp} (I) | 8.41 | 6.75 | 8.45 | 6.79 | 8.5 | 6.82 | 8.57 | 6.87 |
| Open-circuit Voltage VOC (V) | 37.42 | 35.10 | 37.76 | 35.42 | 37.92 | 35.57 | 38.19 | 35.82 |
| Short-circuit Current ISC (I) | 8.88 | 7.15 | 8.92 | 7.18 | 8.98 | 7.23 | 9.03 | 7.27 |
| Module Efficiency % (%) | 16.00 | | 16.29 | | 16.60 | | 16.91 | |

STC : 1000 W/m² irradiance, 25°C cell temperature, AM 1.5g spectrum according to EN 60904-3.
NOCT : 800 W/m² irradiance, ambient temperature 20°C, wind speed 1 m/sec

Thermal Characteristics

| Nominal Operating Cell Temperature | NOCT | °C | 45°C ± 2°C |
|------------------------------------|----------|------|------------|
| Temperature Coefficient of Pmax | γ | %/°C | -0.361 |
| Temperature Coefficient of VOC | β | %/°C | -0.304 |
| Temperature Coefficient of ISC | α | %/°C | 0.05 |

Operating Conditions

| | |
|---|-------------------|
| Max. System Voltage | 1500Vdc |
| Max. Series Fuse Rating | 15A |
| Limiting Reverse Current | 25A |
| 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 |

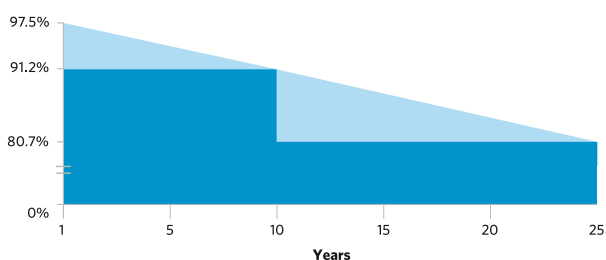
Mechanical Data

| | |
|--|--|
| 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 / Multicrystalline 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 ² |
| 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 |

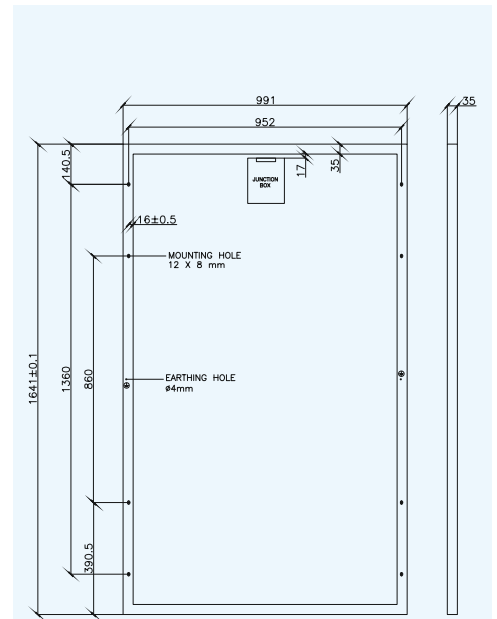
Linear Performance Warranty



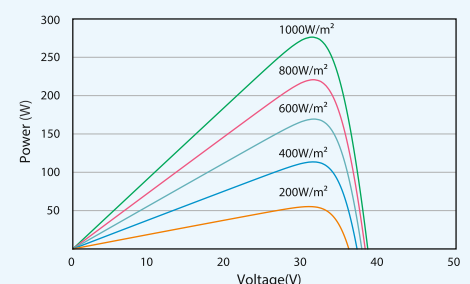
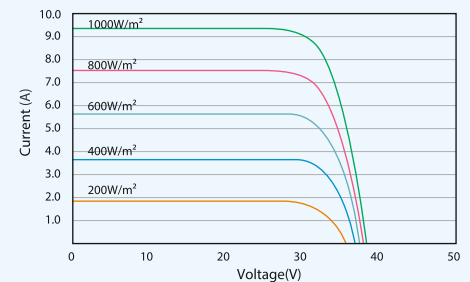
■ Lubi Linear Performance Warranty ■ Industry Standard Warranty

- 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



Electrical Parameters at Standard Test Conditions STC & NOCT

| Model Type | LE24P315 | | LE24P320 | | LE24P325 | | LE24P330 | |
|--------------------------------------|----------|--------|----------|--------|----------|--------|----------|--------|
| | STC | NOCT | STC | NOCT | STC | NOCT | STC | NOCT |
| Power Output Pmax (W) | 315 | 234.05 | 320 | 237.76 | 325 | 241.48 | 330 | 245.19 |
| Voltage at Pmax V _{mpp} (V) | 37.51 | 34.62 | 37.7 | 34.80 | 37.88 | 34.96 | 38.11 | 35.18 |
| Current at Pmax I _{mpp} (I) | 8.42 | 6.76 | 8.51 | 6.83 | 8.59 | 6.91 | 8.66 | 6.97 |
| Open-circuit Voltage VOC (V) | 45.55 | 42.73 | 45.74 | 42.90 | 45.86 | 43.02 | 45.98 | 43.13 |
| Short-circuit Current ISC (I) | 8.94 | 7.20 | 9.01 | 7.25 | 9.06 | 7.29 | 9.1 | 7.33 |
| Module Efficiency % (%) | 16.20 | | 16.46 | | 16.72 | | 16.98 | |

STC : 1000 W/m² irradiance, 25°C cell temperature, AM 1.5g spectrum according to EN 60904-3.
 NOCT : 800 W/m² irradiance, ambient temperature 20°C, wind speed 1 m/sec

Thermal Characteristics

| | | | |
|------------------------------------|----------|------|------------|
| Nominal Operating Cell Temperature | NOCT | °C | 45°C ± 2°C |
| Temperature Coefficient of Pmax | γ | %/°C | -0.361 |
| Temperature Coefficient of VOC | β | %/°C | -0.304 |
| Temperature Coefficient of ISC | α | %/°C | 0.05 |

Operating Conditions

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

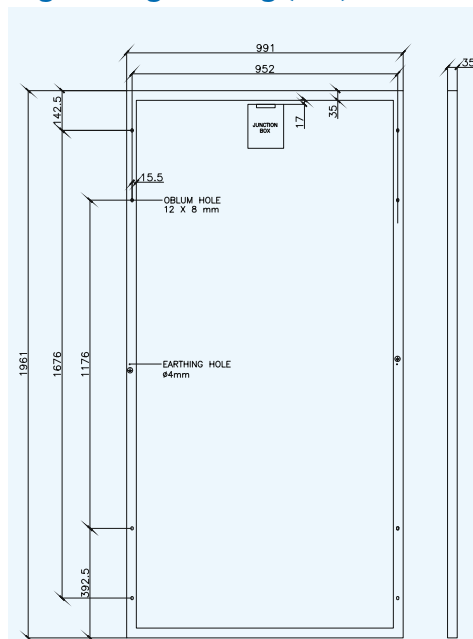
Mechanical Data

| | |
|--|--|
| 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 / Multicrystalline 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 ² |
| Plug Connector (type / protection degree) | MC4 / IP68 |

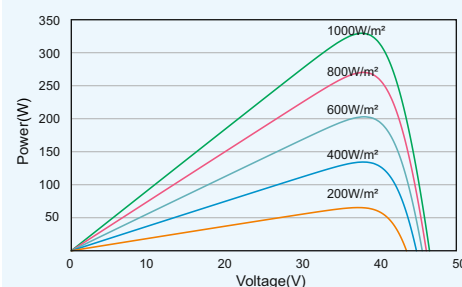
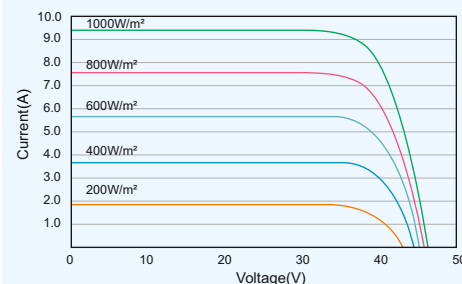
Packaging Specifications

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|--------------------------------------|--------------------------|
| 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 |

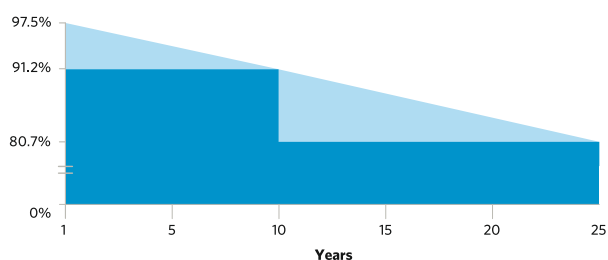
Engineering Drawing (mm)



Electrical Performance



LINEAR PERFORMANCE WARRANTY



■ Lubi Linear Performance Warranty ■ Industry Standard Warranty

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

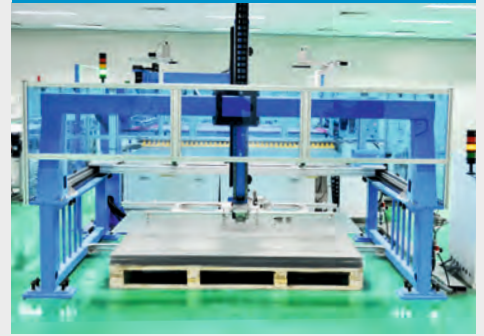
STRINGER WITH AUTO-LAYUP



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 330 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



Lubi Electronics

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CAUTION : READ SAFETY AND INSTALLATION MANUAL BEFORE USING THE PRODUCT.

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.