

Smart Module

255-315 Watt

POWER OUTPUT RANGE

Positive power tolerance of 0/+3%

JinkoSolar introduces a brand new line of highly intelligent modules for a wide range of applications.

IEC61215, IEC61730 certified products

(4BB)



KEY FEATURES



4 Busbar Solar Cell:

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



Maximum Power:

Integrated optimizer mitigates power loss from panel-to-panel mismatch caused by shading, soiling, aging, and unfavorable roof orientations to ensure maximum power output



Installation benefits:

Provides more installation options for various roofs and orientation limitations



Hotspot elimination:

Hotspots are eliminated and panel degradation is minimized



Safety:

Module level disconnects provide safety and regulation compliance



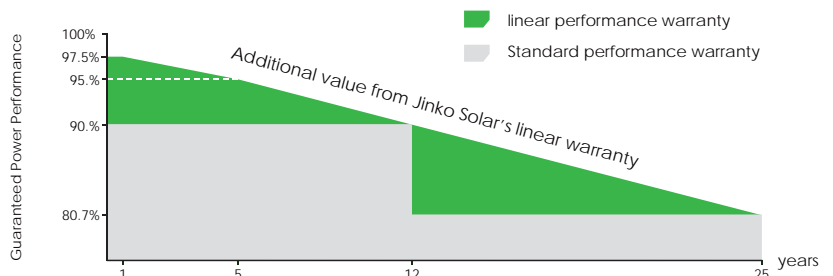
Appearance:

Aesthetic appearance due to a uniform, darkened module design, ideal for demanding architectural applications.



LINEAR PERFORMANCE WARRANTY

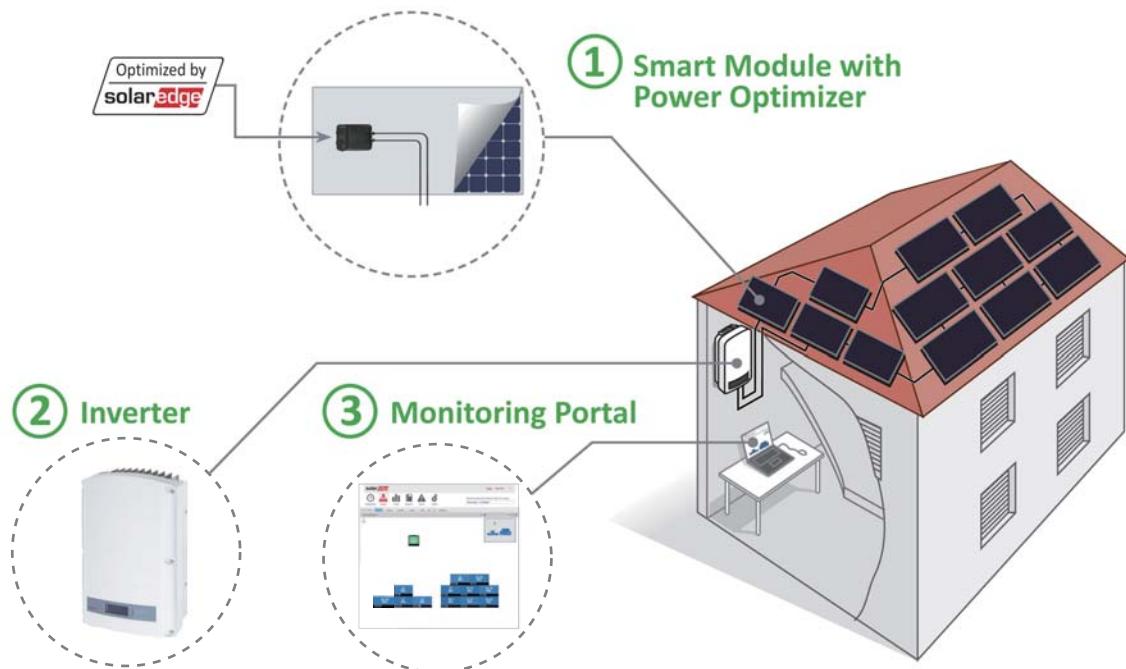
10 Year Product Warranty • 25 Year Linear Power Warranty



Smart Module

Next generation of photovoltaic modules that will revolutionize the solar industry and accelerate the pace toward grid parity.

SYSTEM OVERVIEW



Unique Safety Features

- SafeDC™ allows automatic module DC shutdown when the inverter is not operating or AC is shut down
- Module and inverter thermal shutdown capability
- Electrical arc prevention through SafeDC™








PRODUCTS

Additional products and services available from SolarEdge:

| | | | | | |
|--------------------------------------|---|--|---|--|---|
| Single & Three Phase Inverters |  | 2.2kW 3kW 3.5kW 4kW 5kW 6kW |  | 4kW* 5kW 7kW 8kW 9kW 10kW | * Available in Germany, Austria and Denmark; for other countries, contact SolarEdge |
| | | | | | |

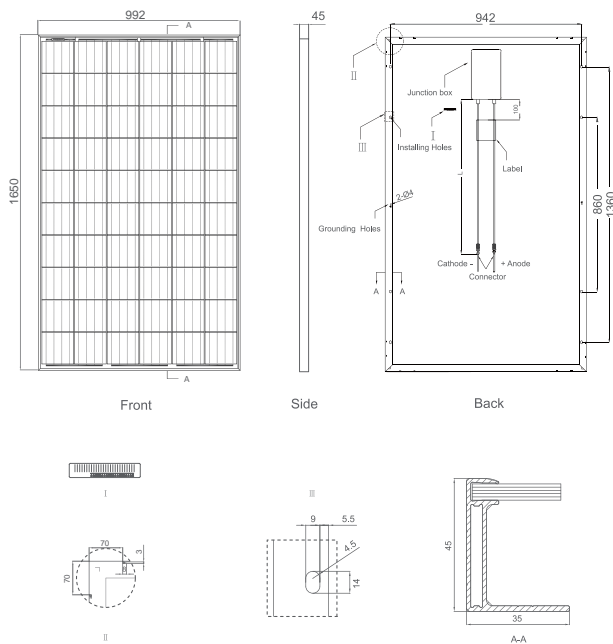
| | | |
|--|--|--|
| Commercial & Utility-Scale Inverters | Commercial | |
| |  | 5kW 12.5kW 7kW 15kW 8kW 16kW 9kW 17kW 10kW |

| | | | |
|------------|---|--|---|
| Monitoring | Monitoring Portal | Monitoring Apps | Safety & Monitoring Interface |
| |  |  |  |

| | | |
|--|---|--|
| Communication & Safety Accessories | Wifi Communication Solution | ZigBee wireless connectivity |
| |  |  |

| | | | |
|-----------------|---|--|---|
| Installer Tools | Site Designer | Site Mapper | key |
| |  |  |  |

Engineering Drawings

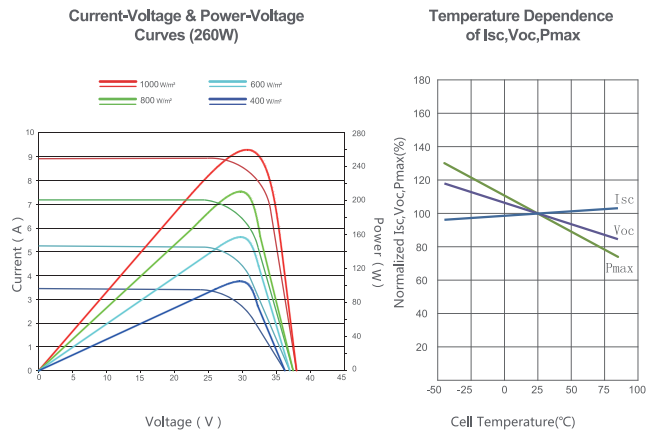


Packaging Configuration

(Two boxes=One pallet)

23pcs/ box, 46pcs/pallet, 644 pcs/40'HQ Container

Electrical Performance & Temperature Dependence



Mechanical Characteristics

| | |
|---------------|--|
| Cell Type | Poly-crystalline 156×156mm (6 inch) |
| No. of cells | 60 (6×10) |
| Dimensions | 1650×992×45mm (65.00×39.05×1.77 inch) |
| Weight | 19.7 kg (43.4 lbs) |
| Front Glass | 3.2mm, High Transmission, Low Iron, Tempered Glass |
| Frame | Anodized Aluminium Alloy |
| Junction Box | IP67 Rated (SolarEdge OPJ300-LV) |
| Output Cables | TÜV 1×6.0mm ² , Length:1000mm |

SPECIFICATIONS

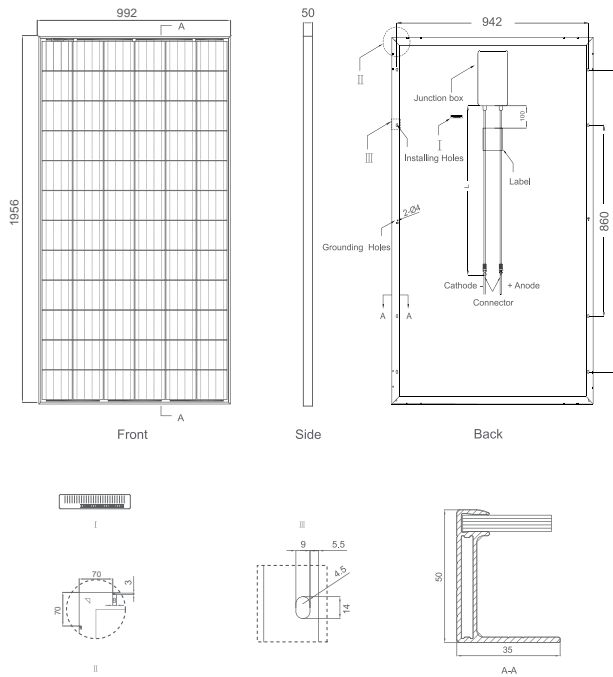
| Module Type | JKMS255P-B-J4 | | JKMS260P-B-J4 | | JKMS265P-B-J4 | |
|---|---------------|-------|---------------|-------|---------------|-------|
| | STC | NOCT | STC | NOCT | STC | NOCT |
| Maximum Power (Pmax) | 255Wp | 190Wp | 260Wp | 194Wp | 265Wp | 198Wp |
| Maximum Power Voltage (Vmp) | 30.8V | 28.1V | 31.1V | 28.3V | 31.4V | 28.7V |
| Maximum Power Current (Imp) | 8.28A | 6.75A | 8.37A | 6.84A | 8.44A | 6.91A |
| Open-circuit Voltage (Voc) | 38.0V | 35.0V | 38.1V | 35.1V | 38.6V | 35.3V |
| Short-circuit Current (Isc) | 8.92A | 7.22A | 8.98A | 7.26A | 9.03A | 7.31A |
| Module Efficiency STC (%) | 15.58% | | 15.89% | | 16.19% | |
| Safe DC™ output Voltage | 1V | | | | | |
| Operating Temperature(°C) | -40°C~+85°C | | | | | |
| Maximum system voltage | 1000VDC (IEC) | | | | | |
| Maximum series fuse rating | 15A | | | | | |
| Power tolerance | 0~+3% | | | | | |
| Temperature coefficients of Pmax | -0.40%/°C | | | | | |
| Temperature coefficients of Voc | -0.30%/°C | | | | | |
| Temperature coefficients of Isc | 0.06%/°C | | | | | |
| Nominal operating cell temperature (NOCT) | 45±2°C | | | | | |

STC: ☀ Irradiance 1000W/m² 📏 Cell Temperature 25°C ☁ AM=1.5

NOCT: ☀ Irradiance 800W/m² 📏 Ambient Temperature 20°C ☁ AM=1.5 🌀 Wind Speed 1m/s

* Power measurement tolerance: ± 3%

Engineering Drawings



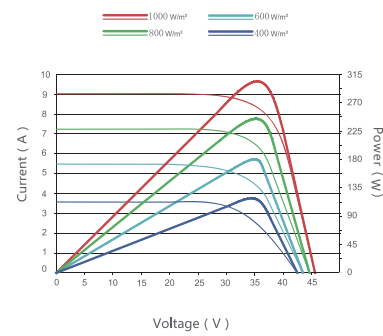
Packaging Configuration

(Two boxes =One pallet)

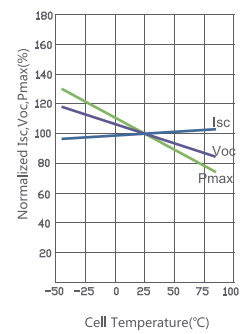
20pcs/ box, 40pcs/pallet, 440 pcs/40'HQ Container

Electrical Performance & Temperature Dependence

Current-Voltage & Power-Voltage Curves (305W)



Temperature Dependence of Isc, Voc, Pmax



Mechanical Characteristics

| | |
|---------------|--|
| Cell Type | Poly-crystalline 156×156mm (6 inch) |
| No. of cells | 72 (6×12) |
| Dimensions | 1956×992×50mm (77.01×39.05×1.97 inch) |
| Weight | 27.7 kg (61.06 lbs.) |
| Front Glass | 4.0mm, High Transmission, Low Iron, Tempered Glass |
| Frame | Anodized Aluminium Alloy |
| Junction Box | IP67 Rated (SolarEdge OPJ300-LV) |
| Output Cables | TÜV 1×6.0mm², Length:1000mm |

SPECIFICATIONS

| Module Type | JKMS305P-B-J4 | | JKMS310P-B-J4 | | JKMS315P-B-J4 | |
|---|---------------|-------|---------------|-------|---------------|-------|
| | STC | NOCT | STC | NOCT | STC | NOCT |
| Maximum Power (Pmax) | 305Wp | 226Wp | 310Wp | 231Wp | 315Wp | 235Wp |
| Maximum Power Voltage (Vmp) | 36.8V | 33.6V | 37.0V | 33.9V | 37.2V | 34.3V |
| Maximum Power Current (Imp) | 8.30A | 6.72A | 8.38A | 6.81A | 8.48A | 6.84A |
| Open-circuit Voltage (Voc) | 45.6V | 42.2V | 45.9V | 42.7V | 46.2V | 43.2V |
| Short-circuit Current (Isc) | 8.91A | 7.22A | 8.96A | 7.26A | 9.01A | 7.29A |
| Module Efficiency STC (%) | 15.72% | | 15.98% | | 16.23% | |
| Safe DC™ output Voltage | 1V | | | | | |
| Operating Temperature(°C) | -40°C~+85°C | | | | | |
| Maximum system voltage | 1000VDC (IEC) | | | | | |
| Maximum series fuse rating | 15A | | | | | |
| Power tolerance | 0~+3% | | | | | |
| Temperature coefficients of Pmax | -0.40%/°C | | | | | |
| Temperature coefficients of Voc | -0.30%/°C | | | | | |
| Temperature coefficients of Isc | 0.06%/°C | | | | | |
| Nominal operating cell temperature (NOCT) | 45±2°C | | | | | |

STC: ☀ Irradiance 1000W/m²

📏 Cell Temperature 25°C

☁ AM=1.5

NOCT: ☀ Irradiance 800W/m²

📏 Ambient Temperature 20°C

☁ AM=1.5

🌀 Wind Speed 1m/s

* Power measurement tolerance: ± 3%

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