

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.



KEY FEATURES



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



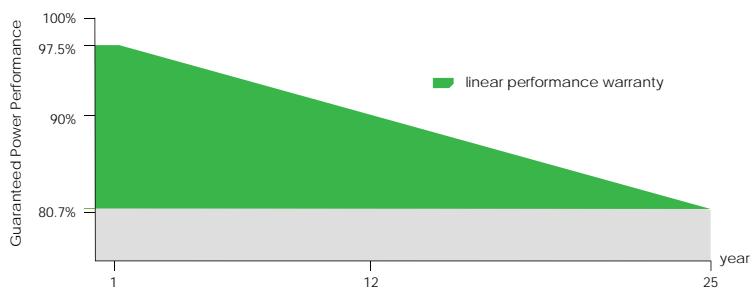
System Design

Allows more modules per string reducing BOS costs and more efficient systems designs



LINEAR PERFORMANCE WARRANTY

10 Year Product Warranty • 25 Year Linear Power Warranty

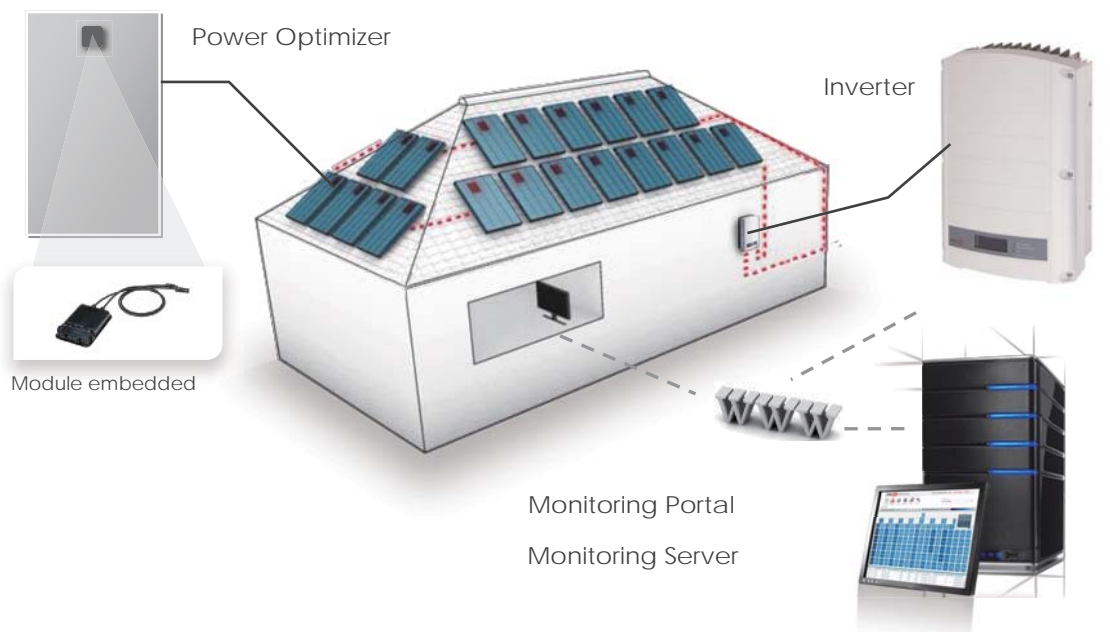


Smart Module

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

SYSTEM OVERVIEW

- Module level optimization
- Fixed voltage - flexible design
- Module level monitoring
- Enhanced safety solution



Unique Safety Features


- SafeDC™ allows automatic module DC shutdown when the inverter is not operating
- 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 |  | 5kW 7kW 8kW 9kW 10kW 12.5kW | 15kW 16kW 17kW |
|--------------------------------|---|--|---|--|----------------------|

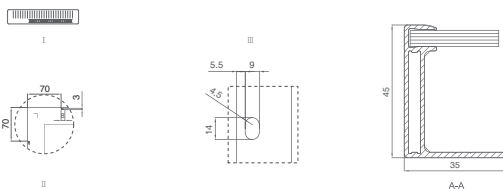
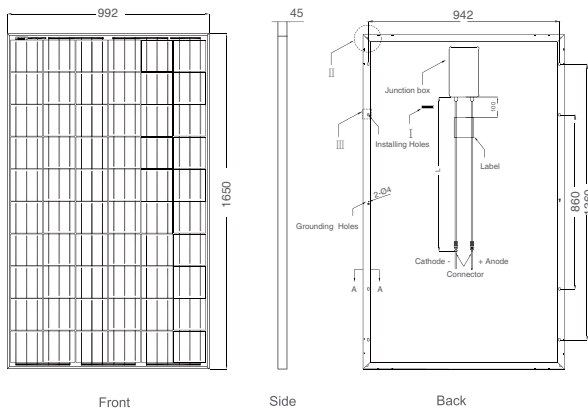
| | | | | | |
|--------------------------------------|--|---|--|--|--|
| Commercial & Utility-Scale Inverters | Commercial | | | | |
| |  | 35kW 40kW 45kW 50kW * Available H2 2014 | | | |

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

| | | | |
|------------------------------------|---|--|---|
| Communication & Safety Accessories | Control & Communication Gateway | ZigBee wireless connectivity | Firefighter Gateway |
| |  |  |  |

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

Engineering Drawings

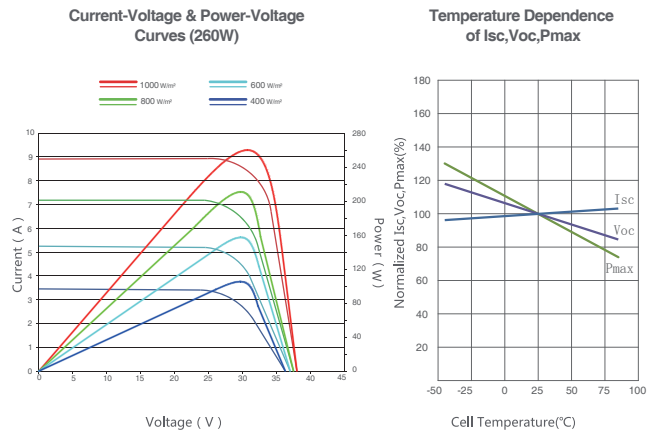


Packaging Configuration

(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

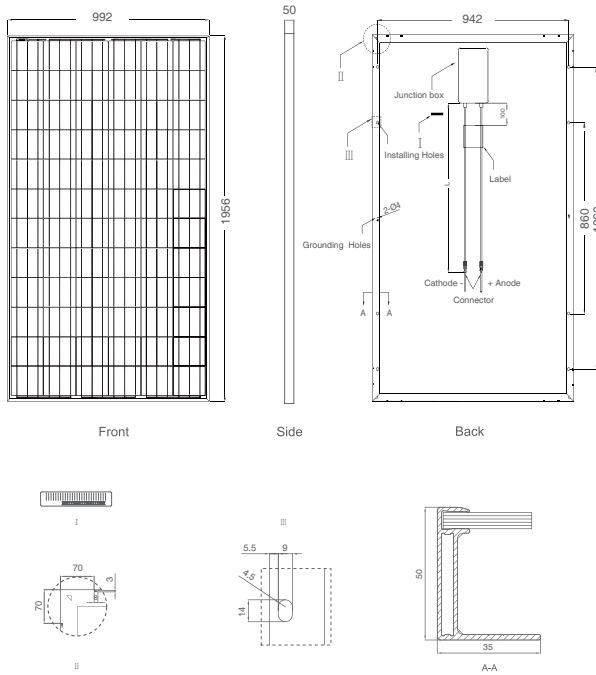
| Module Type | JKMS255P | | JKMS260P | | JKMS265P | | JKMS270P | |
|---|---------------|-------|----------|-------|----------|-------|----------|-------|
| | STC | NOCT | STC | NOCT | STC | NOCT | STC | NOCT |
| Maximum Power (Pmax) | 255Wp | 190Wp | 260Wp | 194Wp | 265Wp | 198Wp | 270Wp | 202Wp |
| Maximum Power Voltage (Vmp) | 30.8V | 28.1V | 31.1V | 28.3V | 31.4V | 28.7V | 31.7V | 29.0V |
| Maximum Power Current (Imp) | 8.28A | 6.75A | 8.37A | 6.84A | 8.44A | 6.91A | 8.52A | 6.97A |
| Open-circuit Voltage (Voc) | 38.0V | 35.0V | 38.1V | 35.1V | 38.6V | 35.3V | 38.8V | 35.6V |
| Short-circuit Current (Isc) | 8.92A | 7.22A | 8.98A | 7.26A | 9.03A | 7.31A | 9.09A | 7.35A |
| Module Efficiency STC (%) | 15.58% | | 15.89% | | 16.19% | | 16.50% | |
| Operating Temperature(°C) | -40°C~+85°C | | | | | | | |
| Maximum system voltage | 1000VDC (IEC) | | | | | | | |
| Maximum series fuse rating | 15A | | | | | | | |
| Power tolerance | 0~+3% | | | | | | | |
| Safe DC™ output Voltage | 1V | | | | | | | |
| 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

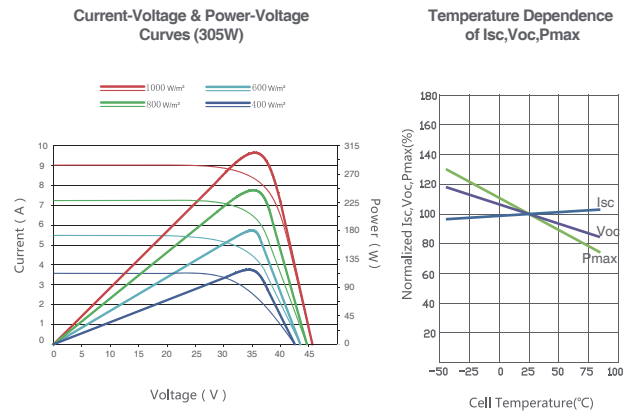


Packaging Configuration

(Two boxes =One pallet)

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

Electrical Performance & Temperature Dependence



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 | JKMS300P | | JKMS305P | | JKMS310P | | JKMS315P | |
|---|---------------|-------|----------|-------|----------|-------|----------|-------|
| | STC | NOCT | STC | NOCT | STC | NOCT | STC | NOCT |
| Maximum Power (Pmax) | 300Wp | 222Wp | 305Wp | 226Wp | 310Wp | 231Wp | 315Wp | 235Wp |
| Maximum Power Voltage (Vmp) | 36.6V | 33.3V | 36.8V | 33.6V | 37.0V | 33.9V | 37.2V | 34.3V |
| Maximum Power Current (Imp) | 8.20A | 6.67A | 8.30A | 6.72A | 8.38A | 6.81A | 8.48A | 6.84A |
| Open-circuit Voltage (Voc) | 45.3V | 41.6V | 45.6V | 42.2V | 45.9V | 42.7V | 46.2V | 43.2V |
| Short-circuit Current (Isc) | 8.84A | 7.18A | 8.91A | 7.22A | 8.96A | 7.26A | 9.01A | 7.29A |
| Module Efficiency STC (%) | 15.46% | | 15.72% | | 15.98% | | 16.23% | |
| Operating Temperature(°C) | -40°C~+85°C | | | | | | | |
| Maximum system voltage | 1000VDC (IEC) | | | | | | | |
| Maximum series fuse rating | 15A | | | | | | | |
| Power tolerance | 0~+3% | | | | | | | |
| Safe DC™ output Voltage | 1V | | | | | | | |
| 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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