

# 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



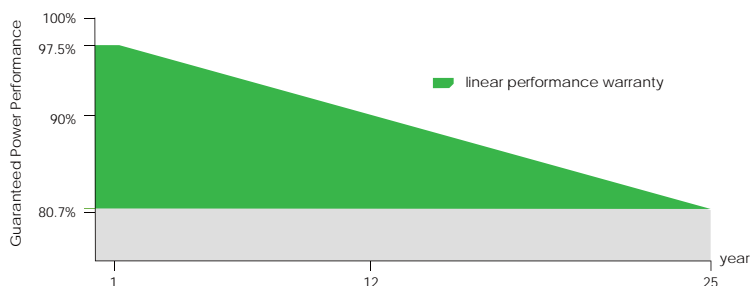
#### System Design

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

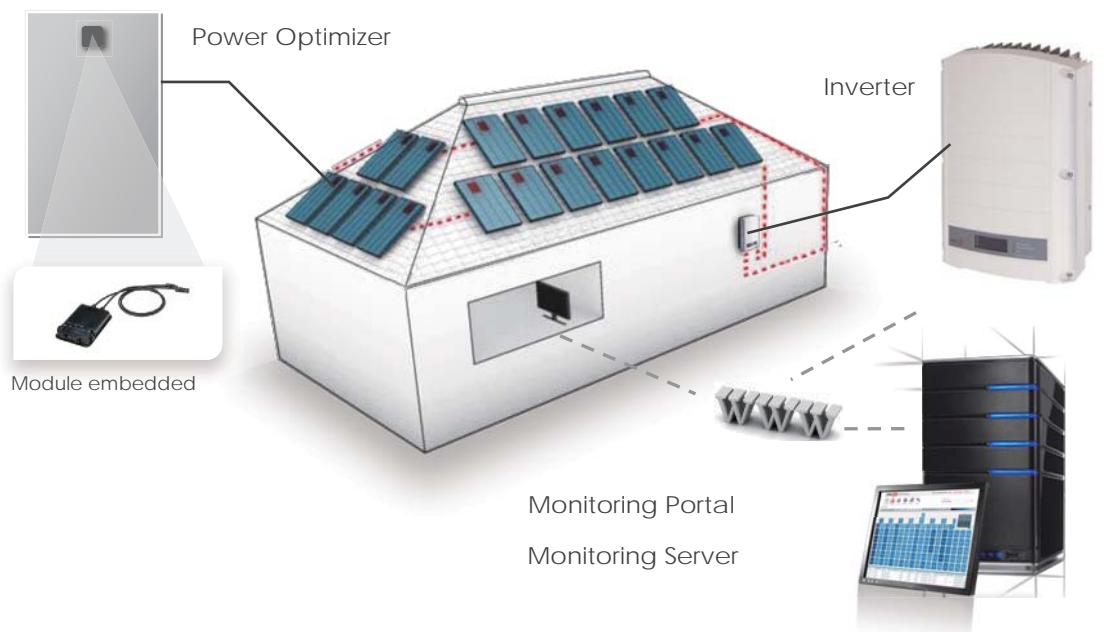


## Smart Module

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
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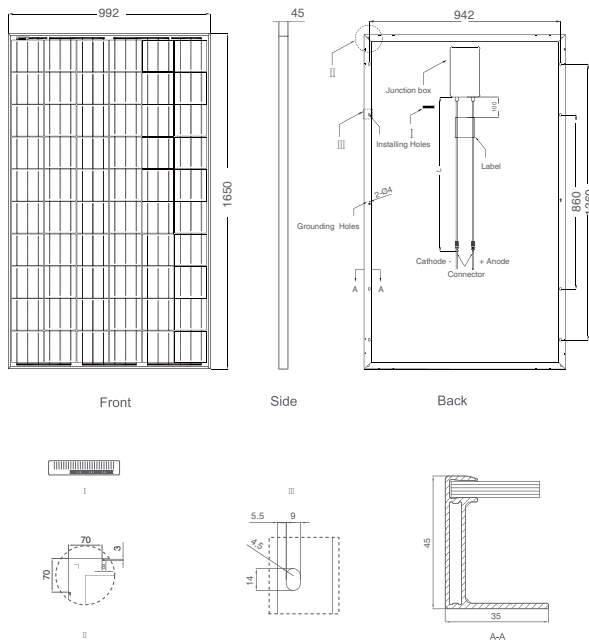
Commercial & Utility-Scale Inverters	Commercial		35kW 40kW 45kW 50kW * Available H2 2014
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Monitoring	Monitoring Portal	Monitoring Apps	Safety & Monitoring Interface
			

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

Installer Tools	Site Designer	Site Mapper	SolarEdge key
			

## Engineering Drawings

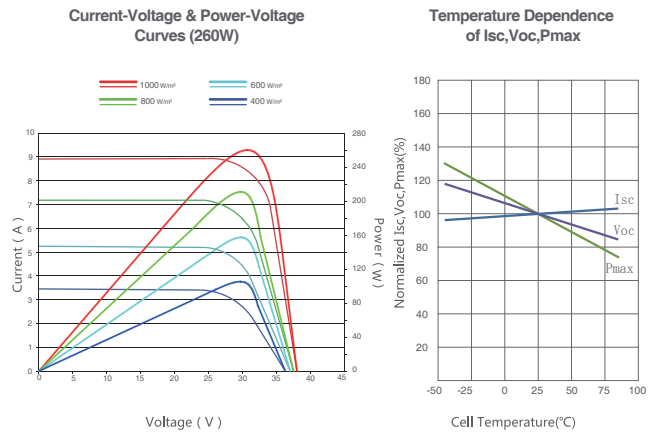


## Packaging Configuration

( 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 <sup>2</sup> , Length:1000mm

## SPECIFICATIONS

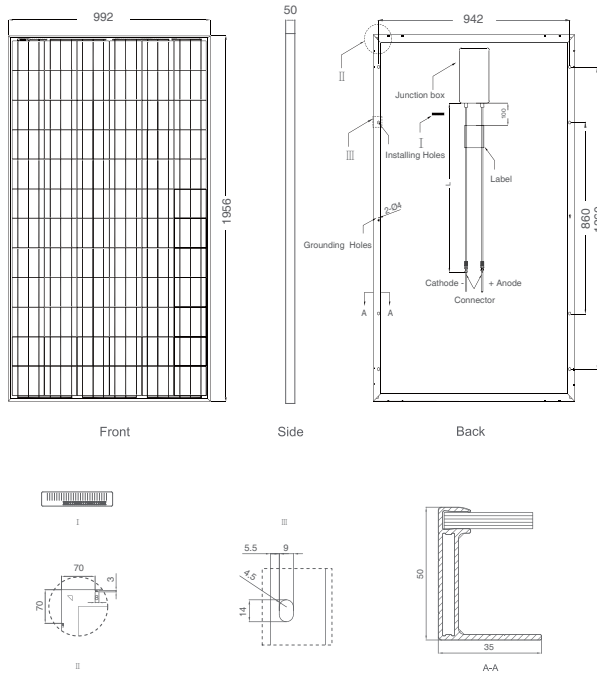
Module Type	JKMS255P		JKMS260P		JKMS265P		JKMS270P	
	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT
Maximum Power (Pmax)	255Wp	190Wp	260Wp	194Wp	265Wp	198Wp	270Wp	202Wp
Maximum Power Voltage (Vmp)	30.8V	28.1V	31.1V	28.3V	31.4V	28.7V	31.7V	29.0V
Maximum Power Current (Imp)	8.28A	6.75A	8.37A	6.84A	8.44A	6.91A	8.52A	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/m<sup>2</sup> Cell Temperature 25°C AM=1.5

NOCT: Irradiance 800W/m<sup>2</sup> Ambient Temperature 20°C AM=1.5 Wind Speed 1m/s

\* Power measurement tolerance: ± 3%

## Engineering Drawings

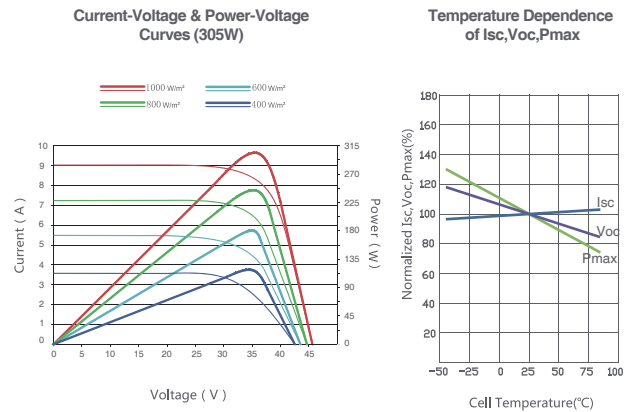


## Packaging Configuration

( 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 (77.01×39.05×1.77 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%