

# Smart Module

## 255-320 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



## 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



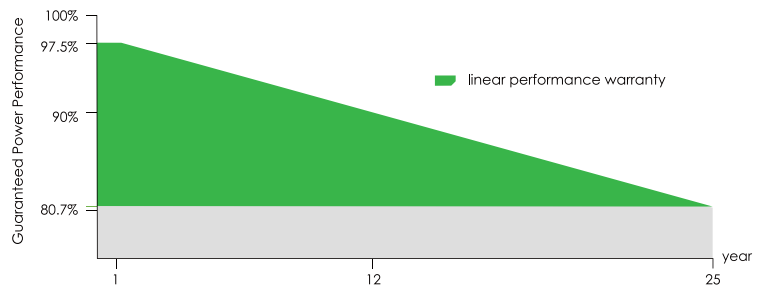
### Safety

Module level disconnects provide safety and regulation compliance



## LINEAR PERFORMANCE WARRANTY

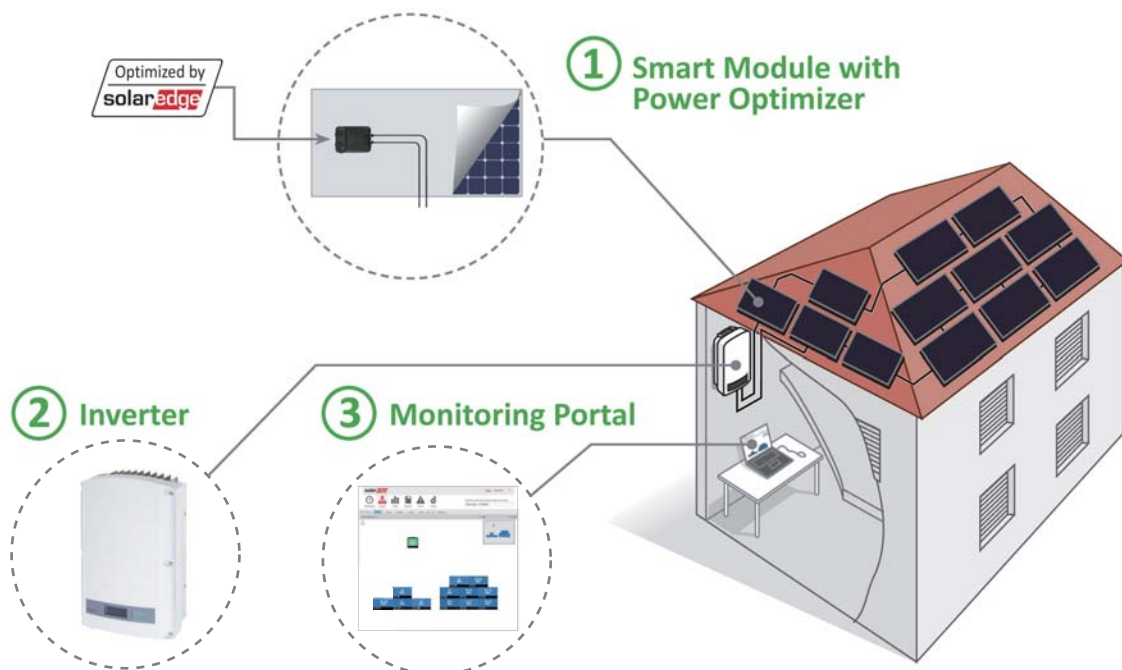
10 Year Product Warranty • 25 Year Linear Power Warranty



## 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 Gemrany, Austria and Denmark; for other countries, contact SolarEdge

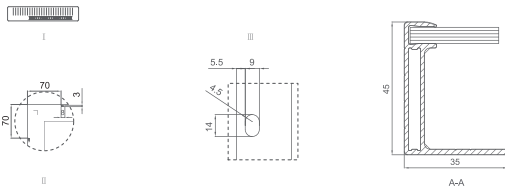
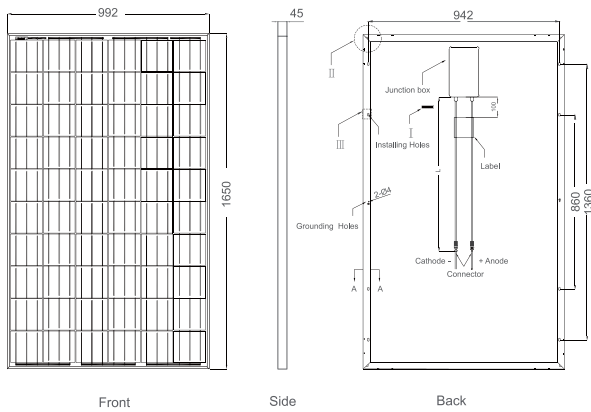
Commercial & Utility-Scale Inverters		Commercial 5kW    12.5kW 7kW    15kW 8kW    16kW 9kW    17kW 10kW

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

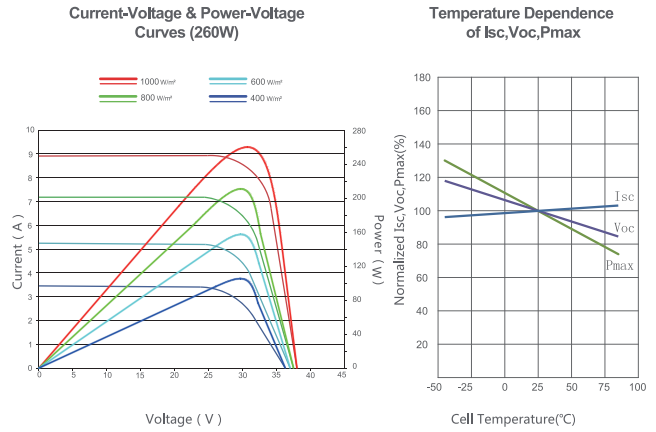


## Packaging Configuration

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

## SPECIFICATIONS

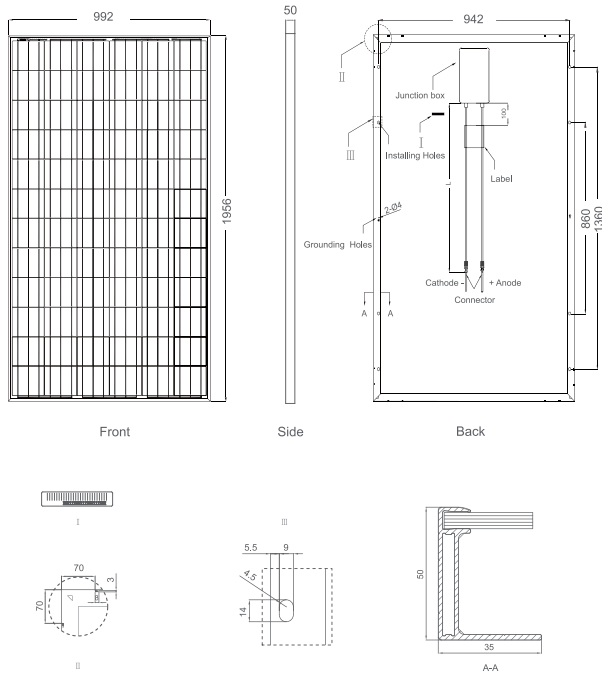
Module Type	JKMS255P		JKMS260P		JKMS265P		JKMS270P	
	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT
Maximum Power (Pmax)	255Wp	190Wp	260Wp	194Wp	265Wp	198Wp	270Wp	202Wp
Maximum Power Voltage (Vmp)	30.8V	28.1V	31.1V	28.3V	31.4V	28.7V	31.7V	29.0V
Maximum Power Current (Imp)	8.28A	6.75A	8.37A	6.84A	8.44A	6.91A	8.52A	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%	
<b>Safe DC™ output Voltage</b>	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/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

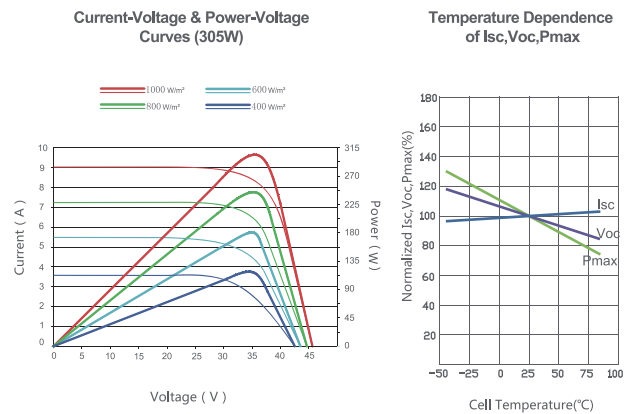


## Packaging Configuration

( 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 (77.01×39.05×1.97 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		JKMS310P		JKMS315P		JKMS320P	
	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT
Maximum Power (Pmax)	305Wp	226Wp	310Wp	231Wp	315Wp	235Wp	320Wp	238Wp
Maximum Power Voltage (Vmp)	36.8V	33.6V	37.0V	33.9V	37.2V	34.3V	37.4V	34.7V
Maximum Power Current (Imp)	8.30A	6.72A	8.38A	6.81A	8.48A	6.84A	8.56A	6.86A
Open-circuit Voltage (Voc)	45.6V	42.2V	45.9V	42.7V	46.2V	43.2V	46.4V	43.7V
Short-circuit Current (Isc)	8.91A	7.22A	8.96A	7.26A	9.01A	7.29A	9.05A	7.30A
Module Efficiency STC (%)	15.72%		15.98%		16.23%		16.49%	
<b>Safe DC™ output Voltage</b>	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%

# JinkoSolar Holding Co.,Ltd.

## Headquarters

### Global Sales & Marketing Center

16F, Building No.2  
428# South Yang Gao Road,  
Shanghai, China 200127  
Tel: +86 21 6061 1799  
Fax: +86 21 6876 1115

### Jiangxi Manufacture Base

No.1 Jinko Road,  
Shangrao Economic Development Zone,  
Jiangxi Province, China 334100  
Tel:+86 793 858 8188  
Fax:+86 793 846 1152

### Zhejiang Manufacture Base

No.58 Yuanxi Road,  
Haining Yuanhua Industrial Park,  
Zhejiang Province, China 314416  
Tel: +86 573 8798 5678  
Fax: +86 573 8787 1070

## Europe

### JinkoSolar (Switzerland) A.G.

Chamerstrasse 85, in 6300 Zug  
Tel:+41 41 748 0010  
Fax:+41 41 748 0019

### JinkoSolar GmbH in Munich, Germany

Freisingerstr. 9  
D-85716 Unterschleißheim bei  
München, Germany  
Tel:+49 (0) 891433246-0  
Fax:+49 (0) 891433246-29  
germany@jinkosolar.com

### JinkoSolar Office in Bologna, Italy

Via Bazzanese 32/7  
Casalechio di Reno (BO)  
Tel:+39 051 298 8511  
Fax:+39 051 571 274  
italy@jinkosolar.com

## North America

### JinkoSolar ( U.S. ) Inc.

343 Sansome Street, Suite 975,  
San Francisco, CA 94104  
Tel:+1 415 402 0502  
Fax:+1 415 402 0703  
us@jinkosolar.com

### JinkoSolar Canada Co., Ltd.

Suite 703, 100 Allsate Parkway,  
Markham, ON Canada L3R 6H3  
Tel:+1 905 604 2527  
Fax: +1 905 604 2687  
canada@jinkosolar.com

## Asia & Pacific

### JinkoSolar Japan KK

Shanghai Kokusai Building 4F  
1-24-12 Shinkawa, Chuo-ku, Tokyo,  
Japan 104-0033  
Tel:+81 (0)3 6280 3366  
Fax: +81 (0)3 6280 3563

### JinkoSolar China

F22 D7-9, Western Central Plaza T1,  
1# Xizhimen Street, Beijing,  
China 100044  
Tel:+86 10 5830 1948  
Fax: +86 10 5834 1487

### JinkoSolar Osaka Office

6F Sakaisuji Honmachi Building.  
1-8-14, Minami Honmachi, Chuo-ku,  
Osaka. 541-0054 Japan  
Sales: +81 (0)6 6125 5553  
Fax:+81 (0)6 6125 5977

### JinkoSolar Australia Holdings Co., Ltd.

Level 13, 307 Queen St, Brisbane QLD 4000.  
Customer Service: +61(0) 7 3236 5460;  
Sales: +61 (0)7 3221 5218  
Fax: +61 (0)7 3236 5794  
aus@jinkosolar.com

## Logistics Warehouses in Europe & US



www.jinkosolar.com | sales@jinkosolar.com

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