

# Eagle MX 60B

## 270-290 Watt

MONOCRYSTALLINE MODULE

Positive power tolerance of 0 ~+3%

Preliminary Version



Optimized by



### KEY FEATURES



High module efficiency up to 17.72%, with Passivated Emitter Rear Contact (PERC) technology



Built-in intelligent cell optimizer IC avoids negative consequences of any type of mismatch within a panel caused by shading, soiling, aging, unfavorable house orientation, etc. to ensure greatest power output possible.



The most flexible solution for any rooftop condition and orientation.



Elimination of hot spots, which results in minimized panel degradation.



Best-in-class shade tolerance by performing MPPT on individual cell-strings to maximize energy harvest.



Anti-electromagnetic interference.

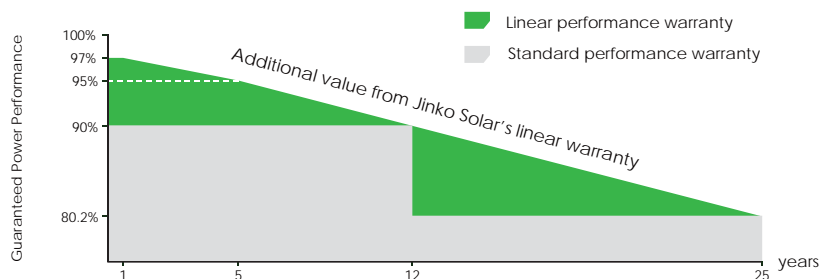


No added hardware, compatible with any inverter and optimization built into the module.



### LINEAR PERFORMANCE WARRANTY

10 Year Product Warranty • 25 Year Linear Power Warranty



## Smart Module

Innovations in the photovoltaic industry over the past decades have made PV technology a viable solution for widespread adoption. However, several issues prevent today's standard solar installations from functioning as ideal power sources. Solar modules that are expected to be exposed to the environment for at least 25 years can be affected by conditions such as; shading, soiling, aging, temperature gradients, and more. Mismatch caused by these factors in a panel or among various panels can cause the system to lose power. JinkoSolar Smart Module solutions solve these problems and produce up to 20% more energy under these unfavorable conditions.

## Ideal For High Volume Residential

JinkoMaximized modules can produce the most energy possible regardless of home orientation or shading issues, without the complexity of DC Optimizers or added expense of Microinverters. Because MPPT for each cell string is embedded into the fabric of these modules, system design can be simplified while still utilizing the industry's most trusted brands of string inverters. Installation is identical to that of standard modules and requires no internet configuration so shade tolerance can be included without retraining crews or slowing installation. JinkoMaximized is the perfect solution for today's high-volume residential installers.

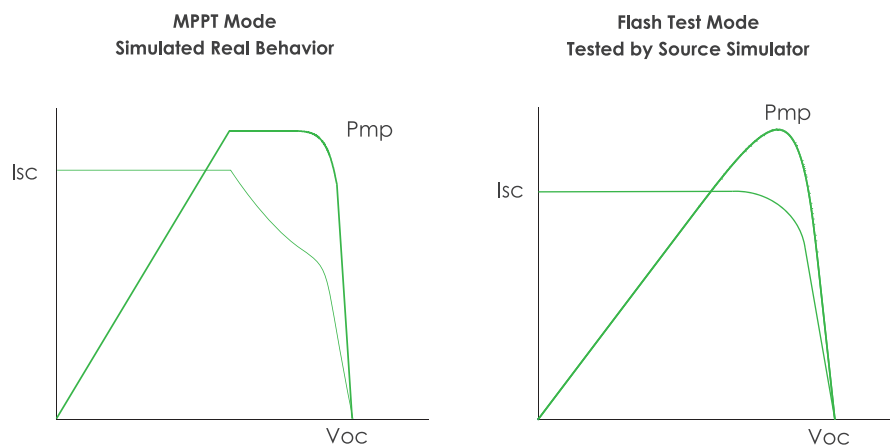
## Perfect for Commercial rooftops

Smart modules optimized by Maxim can lower the cost and enhance the financial performance of large PV projects by improving the system density. The module's built-in shade tolerance can accommodate closer row spacing enabling more production per square meter. This not only cost-effectively maximizes production in constrained areas, but also amortizes fixed costs over larger nameplate capacity lowering cost per watt. The smart module will deliver consistently more power to the off-taker and greater profits for the system owner.

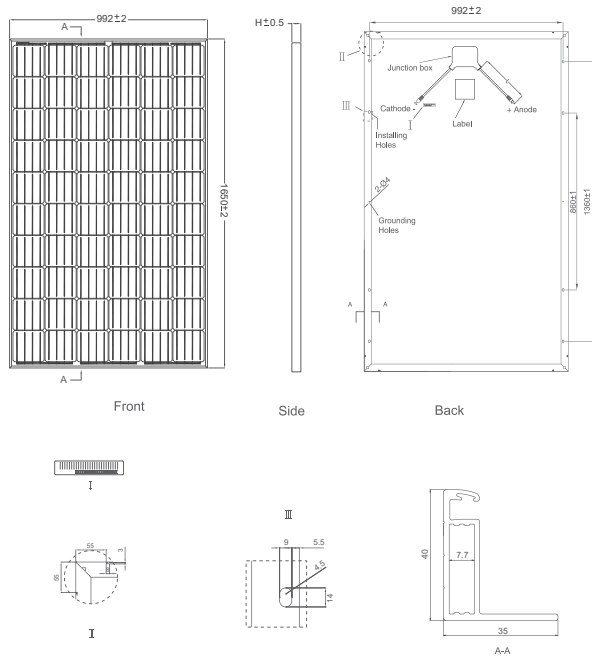
## Smart Module Behavior

**MPPT Mode:** JinkoSolar Smart Module isolates cells within the module and arbitrarily scales up the output current to match the string current, hence allowing each cell group to independently operate at its unique Maximum Power Point.

**Flash Test Mode:** A flash test sweep is performed at a faster rate than the MPPT response time. This allows the module to revert to Active Bypass mode and results in an I-V curve that is comparable to a conventional, non optimized, curve.



## Engineering Drawings

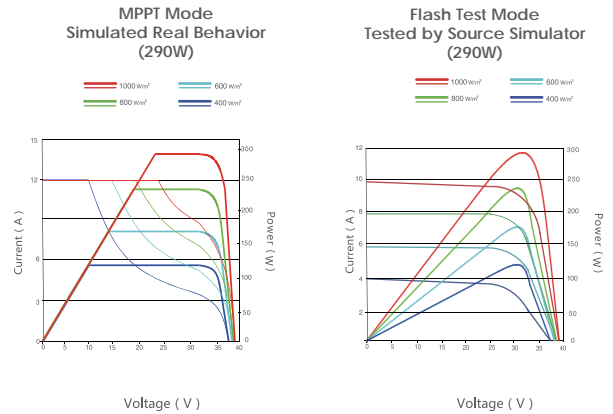


## Packaging Configurations

( Two boxes =One pallet )

26pcs/ box , 52pcs/pallet, 728 pcs/40'HQ Container

## Electrical Performance & Temperature Dependence



## Mechanical Characteristics

Cell Type	Mono-crystalline PERC	156×156mm (6 inch)
No. of cells		60 (6×10)
Dimensions		1650×992×40mm (65.00×39.05×1.57 inch)
Weight		19.0 kg (41.9 lbs)
Front Glass	3.2mm, High Transmission, Low Iron, Tempered Glass	
Frame	Anodized Aluminium Alloy	
Junction Box	IP65 Rated	
Output Cables	TÜV 1×4.0mm², Length: 900mm or Customized Length	

## SPECIFICATIONS

Module Type	JKM270M-60B		JKM275M-60B		JKM280M-60B		JKM285M-60B		JKM290M-60B	
	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT
Maximum Power (Pmax)	270Wp	201Wp	275Wp	205Wp	280Wp	209Wp	285Wp	212Wp	290Wp	216Wp
Maximum Power Voltage (Vmp)	31.4V	29.3V	31.6V	29.6V	31.8V	29.7V	32.0V	29.9V	32.2V	30.2V
Maximum Power Current (Imp)	8.60A	6.85A	8.70A	6.93A	8.81A	7.01A	8.90A	7.12A	9.02A	7.21A
Open-circuit Voltage (Voc)	38.4V	35.6V	38.5V	36.0V	38.6V	36.2V	38.7V	36.4V	38.8V	36.6V
Short-circuit Current (Isc)	9.28A	7.45A	9.40A	7.54A	9.53A	7.62A	9.65A	7.72A	9.78A	7.81A
Module Efficiency STC (%)	16.50%		16.80%		17.11%		17.41%		17.72%	
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	-0.39%/°C									
Temperature coefficients of Voc	-0.29%/°C									
Temperature coefficients of Isc	0.05%/°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%

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

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