

# OCMS320M-60-MX

## 300-320 Watt

MONO PERC MODULE

Power Optimized

Positive power tolerance of 0~+3%

ISO9001:2008、ISO14001:2004、OHSAS18001 certified factory.  
IEC61215、IEC61730 certified products.

### PERC



Optimized by



## KEY FEATURES



### Output-Voltage Limiting

Integrated Voltage/Current-Limiting Clamps Output Voltage/Current which reduces the overall system BOS.



### Shade Tolerance

MPPT on individual cell-strings optimizes energy harvest



### Built-in Cell Optimizer

No additional electronics or hardware required; allows for simple installation



### Innovative Solar Cells

Five busbar monocrystalline cell technology improves module efficiency



### High Efficiency

Higher module conversion efficiency (up to 19.55%) due to Passivated Emmitter Rear Contact (PERC) technology



### PID RESISTANT:

Limited power degradation of Cheetah module caused by PID effect is guaranteed under strict testing condition (85 C /85%RH,96hours)for mass production.



### Low-Light Performance

Advanced glass technology improves light absorption and retention

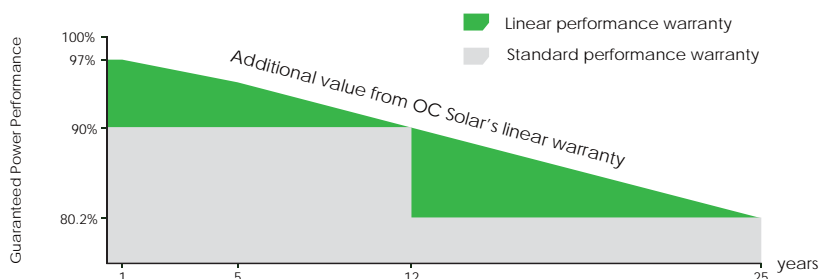


### Strength and Durability

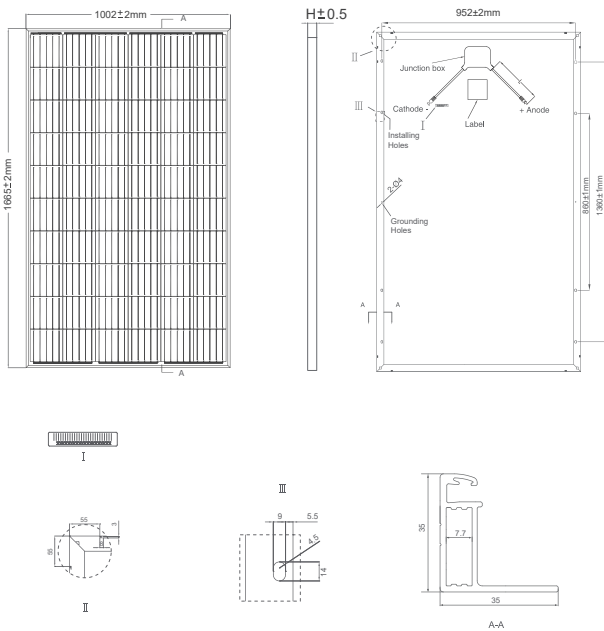
Certified for high snow (5400Pa) and wind (2400Pa) loads

## LINEAR PERFORMANCE WARRANTY

10 Year Product Warranty • 25 Year Linear Power Warranty



## Engineering Drawings



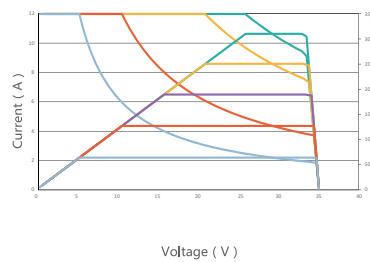
## Packaging Configurations

(Two pallets = One stack)

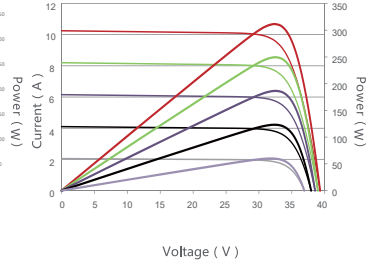
30pcs/pallet, 60pcs/stack, 840pcs/40'HQ Container

## Electrical Performance & Temperature Dependence

MPPT Mode  
Simulated Real Behavior  
(310W)



Flash Test Mode  
Tested by Source Simulator  
(310W)



## Mechanical Characteristics

Cell Type	Mono PERC	158.75×158.75mm
No. of Cells	60 (6×10)	
Dimensions	1665×1002×35mm (65.55×39.45×1.37 inch)	
Weight	19.0 kg (41.9 lbs.)	
Front Glass	3.2mm, Anti-reflection Coating, High Transmission, Low Iron, Tempered Glass	
Frame	Anodized Aluminium Alloy	
Junction Box	IP67 Rated	
Output Cables	TÜV 1×4.0mm <sup>2</sup> , Length: 900mm or Customized Length	

## SPECIFICATIONS

Module Type	OCMS300M-60-MX		OCMS305M-60-MX		OCMS310M-60-MX		OCMS315M-60-MX		OCMS320M-60-MX	
	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT
Maximum Power (Pmax)	300Wp	224Wp	305Wp	227Wp	310Wp	231Wp	315Wp	234Wp	320Wp	237Wp
Maximum Power Voltage (Vmp)	31.0V	30.6V	31.2V	30.8V	31.4V	31.0V	31.6V	31.2V	31.8V	31.4V
Maximum Power Current (Imp)	9.69A	7.32A	9.79A	7.40A	9.88A	7.49A	9.98A	7.56A	10.07A	7.65A
Open-circuit Voltage (Voc)	35.0V	35.0V	35.0V	35.0V	35.0V	35.0V	35.0V	35.0V	35.0V	35.0V
Short-circuit Current (Isc)	12.0A	8.01A	12.0A	8.12A	12.0A	8.20A	12.0A	8.33A	12.0A	8.44A
Module Efficiency STC (%)	17.98%		18.28%		18.58%		18.88%		19.18%	
Maximum series fuse rating	20A									
Operating Temperature(°C)	-40°C~+85°C									
Maximum System Voltage	1000VDC (UL and IEC)									
Power Tolerance	0~+3%									
Temperature Coefficients of Pmax	-0.37%/°C									
Temperature Coefficients of Voc	-0.28%/°C for VOC ≤ 35.0V 0.0% C for VOC >35.0V									
Temperature Coefficients of Isc	0.048%/°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%