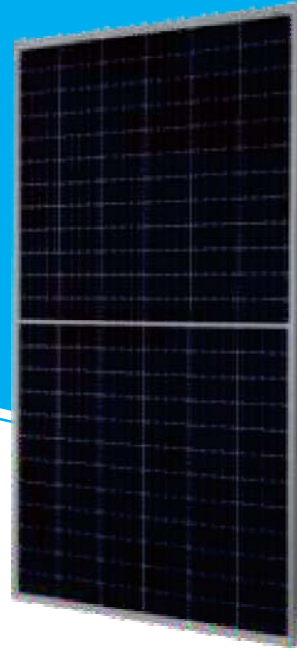


**MOTOMA<sup>®</sup>**

Power into the Future

SO-SPN-MC156-405W

# MONO 405W



## KEY FEATURES



PV chain including silicon materials, wafer, solar glass, solar cell, solar module and solar project, and ISO9001 & ISO14001 certified factory, ensure excellent raw materials and production control.



Solar modules certified by TUV NORD (IEC61215& IEC61730:2016) in the extreme conditions (Temperature, load, impact) with good performance. Pass TUV Salt Mist Corrosion Test, PID Test, Ammonia Resistance Test, Carbon Footprint Test, Fire Test, Sand Test, EMC and LVD Test.



The good weak light performance (morning, evening and cloudy days) has been tested and approved by professional third-party.



Guarantee from 0 to +3% as power tolerance, customer can obtain 5.8% power more than conventional output.



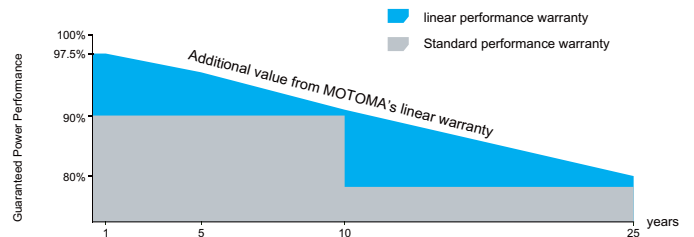
100% EL test before and after lamination, and finished products EL test, providing higher quality assurance.

High Efficiency PERC Half Cell Mono-Crystalline Solar Module



## LINEAR PERFORMANCE WARRANTY

10 Year Product Warranty    25 Year Linear Power Warranty



## SO-SPN-MC156-405W

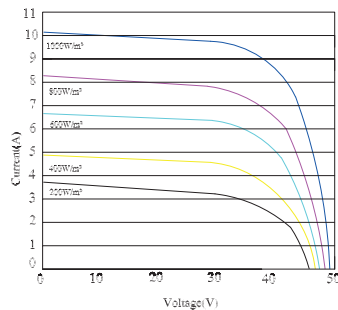
### Electrical Characteristics

Module Type	SO-SPN-MC156-405W
	STC
Maximum Power -P <sub>mp</sub> (W)	405
Open Circuit Voltage -V <sub>oc</sub> (V)	49.2
Short Circuit Current -I <sub>sc</sub> (A)	10.29
Maximum Power Voltage -V <sub>mp</sub> (V)	41.4
Maximum Power Current -I <sub>mp</sub> (A)	9.79
Module Efficiency STC (%)	19.9
Power Tolerance ( W )	+3%
Maximum System Voltage (V)	1000VDC
Maximum Series Fuse Rating (A)	15A
Pmax Temperature Coefficient	-0.36%/°C
Voc Temperature Coefficient	-0.28 %/°C
Isc Temperature Coefficient	+0.04 %/°C
Operating Temperature	-40~+85 °C
Nominal Operating Cell Temperature	45±2 °C

STC: Irradiance 1000 W/m<sup>2</sup> module temperature 25°C AM=1.5

NOCT: Irradiance 800 W/m<sup>2</sup> ambient temperature 20°C wind speed :1m/s Power measurement tolerance: +/-3%

### I-V Curve



### Mechanical Specifications

External Dimension	2038*1000*40mm
Weight	21.8kg
Solar Cells	Mono Crystalline 158.75×79.38mm
No.of Cells	Half cells 144(6*24)
Frame	Anodized aluminium alloy
Junction Box	IP68, MC4
Output Cables	4 mm <sup>2</sup> , cable length:300 mm
Connector	MC4 Compatible
Load Max	5400Pa

### Packing Configuration

Pieces per Carton	2units/Carton
Pieces per Container	253units/20'GP; 638units/40HQ

### Technical drawing

