

# MASAMITSU

## 300W/305W/310W Monocrystalline

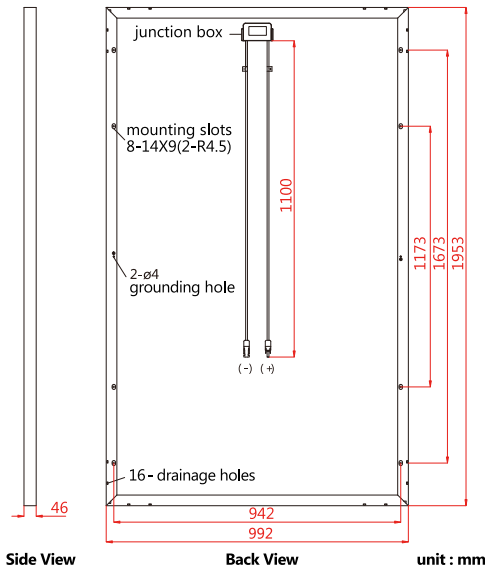
### Specifications

Module can bear snow loads up to 5400Pa and wind loads up to 3800Pa.

High performance under low light conditions.  
(Cloudy days, mornings and evenings)

Black frame and black sheet are optional with aesthetic module appearance.

Passed PID Test, Fire Test, Salt Mist Corrosion Test and Ammonia Corrosion Test.

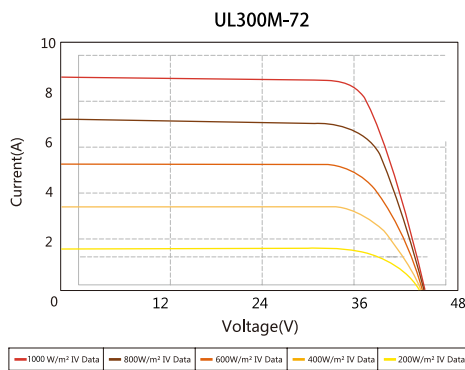


### Electrical Performance / Operating Conditions

Model No.	UL-300M-72	UL-305M-72	UL-310M-72
Power Output	300W	305W	310W
Voltage at Pmax	36.8V	36.8V	37.0V
Current at Pmax	8.16A	8.29A	8.39A
Open Circuit Voltage	45.4V	45.5V	45.6V
Short Circuit Current	8.60A	8.80A	8.92A
Module Efficiency	15.48%	15.74%	16.00%
Operating Temperature Range	-40°C~85°C		
Max. System Voltage	1000V		
Max. Series Fuse Rating	15A		
Power Tolerance	0/+3%		
Max. Static Load, Front (e.g., snow & wind)	5400Pa		
Max. Static Load, Back (e.g., wind)	3800Pa		
Application Class	A		

STC: 1000w/m<sup>2</sup> irradiance, 25°C module temperature, AM1.5 spectrum

### I-V CURVE



### Construction Materials

Cell (quantity/ type/ dimension)	72 / monocrystalline / 156×156 mm
Encapsulant (material)	ethylene vinyl acetate (EVA)
Front Cover (material thickness)	low-iron tempered glass / 3.2mm
Frame (material/ anodization color)	anodized aluminum alloy / silver or black
Dimension (L/W/H)	1953 / 992 / 46 mm
Weight	22.5 kg
Junction Box (protection degree)	IP67
Cable (length/ cross-sectional area)	1100mm / 4mm <sup>2</sup>
Plug Connector	MC4 compatible

### Thermal Characteristics

Nominal Operating Cell Temperature	45+2°C
Temperature Coefficient of Pmax	-0.413 %/°C
Temperature Coefficient of Voc	-0.330 %/°C
Temperature Coefficient of Isc	+0.065 %/°C

