SW425M-108

Full Black Monocrystalline 108 Cells 405W-425W

Mono Solar Panel Features

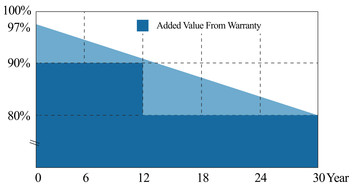
- Widely using of the most popular and mature type of modules for solar system
- High power output and highest conversion efficiency of 22.10%
- Anti-reflective and anti-soiling surface reduces power loss from dirt and dust
- Outstanding Performance in low-light irradiance environments
- Excellent mechanical load resistance: Certified to withstand high wind loads (2400Pa) and Snow loads (5400Pa)
- Positive power tolerance: 0~+5W

Warranty

- 12 years for product defects in materials & workmanship
- 12 years for 90% of warranted minimum power output
- 30 years for 80% of warranted minimum power output
- 30 years liner warranty

Reliable Quality

- Positive power tolerance: 0~+5W
- 100% EL Double-inspection ensures modules are defects free
- Modules Binned by Current to improve system performance
- Potential induced Degradation (PID) Resistant



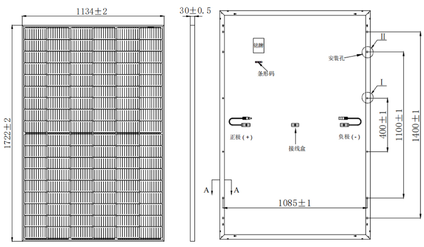
Sunway Solar Co., Ltd. + 86 138 6693 1144 info@sunwaypv.com www.sunwaypv.com

SUNWAYTECH
YOUR PROFESSIONAL PV SUPPLIER

Mechanical parameters

Cell(mm)	Mono 182*91mm
Weight(kg)	22kg
Glass Thickness	3.2mm
Dimensions (L*W*H)(mm)	1722*1134*30mm
Cable Cross Section Size (mm²)	4
Cable Cross Section Length (mm)	300
No.of Cells and Connections	108(6*18)
Junction Box	IP68
Connector	MC4 Compatiple

Engineering Drawings



Working Conditions

Maximum System Voltage	DC 1000V/1500V
Operating Temperature	-40℃~+85℃
Maximum Series Fuse	20A
Maximum Static Load,Front (e.g.,snow and wind)	5400Pa (112 lb/ft²)
Maximum Static Load,Back (e.g.,wind)	2400Pa (50 lb/ft²)
NOCT	45±2℃
Positive power tolerance	0~+5W
Application Class	Class A

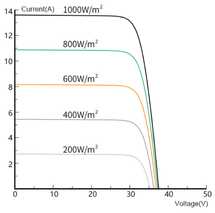
Packaging Configuration

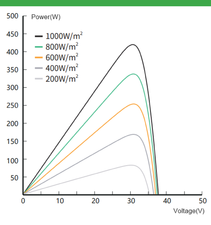
Moduels Per Pallet	36Pcs
Moduels Per 40HQ	936Pcs

Electrical Parameters

Module	SW400M-108 ~ SW420M-108				
Encapsulation	Class/Eva/Cell/Eva/Backsheet				
Maximum Power Pmax (W)	405	410	415	420	425
Maximum Power Voltage (Vmp/V)	31.15	31.30	31.45	31.60	31.90
Maximum Power Current (Imp/A)	13.01	13.10	13.20	13.30	13.33
Open Circuit Voltage (Voc/V)	37.11	37.26	37.41	37.56	37.96
Short Circuit Current (Isc/A)	13.70	13.79	13.89	13.98	14.08
Module Efficiency (%)	20.74	21.00	21.25	21.51	22.10
Power Tolerance (W)	0~+5W				
Temperature Coefficient of Isc (αIsc)	+0.048%/℃				
Temperature Coefficient of Voc (βVoc)	-0.27%/℃				
Temperature Coefficient of Pmax (γPmp)	-0.34%/℃				
STC	Irradiance 1000W/㎡, Cell Temperature 25℃, Spectrum AM 1.5				

I-V Curve





Sunway Solar Co., Ltd. + 86 138 6693 1144 info@sunwaypv.com www.sunwaypv.com