

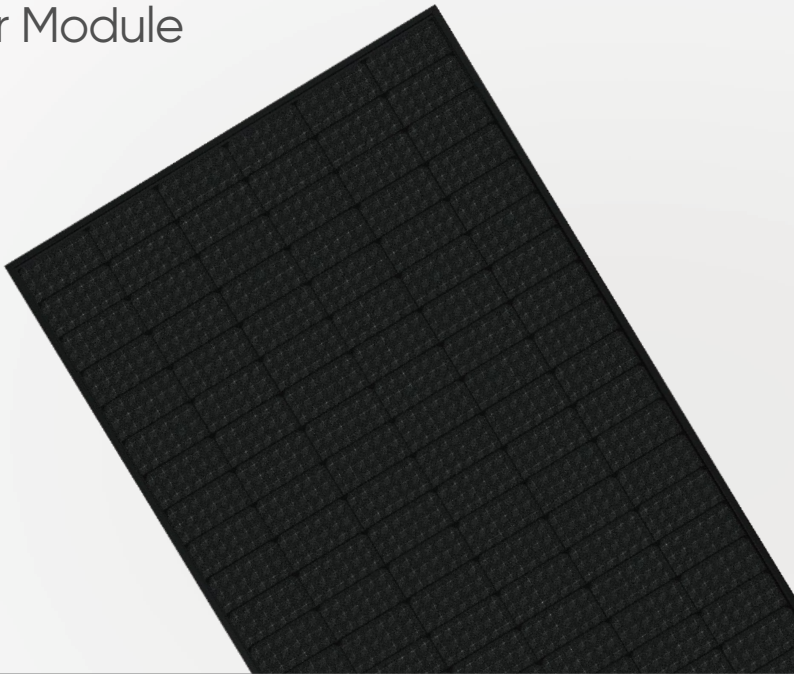
# 385~405W

## MWT Full Black Mono PERC Solar Module

REINSURANCE COVERAGE FOR 30 YEARS >>



MODULE EFFICIENCY UP TO **20.7%**



### FEATURES >>

#### FULL BLACK

All black design for more elegant applications

#### HIGH EFFICIENCY

Busbar-free design increases cell conversion efficiency, more power output can be achieved at low irradiance conditions

#### INNOVATIVE LAYOUT

Innovative back contact module layout with asymmetric design for higher efficiency power

#### HIGH RELIABILITY

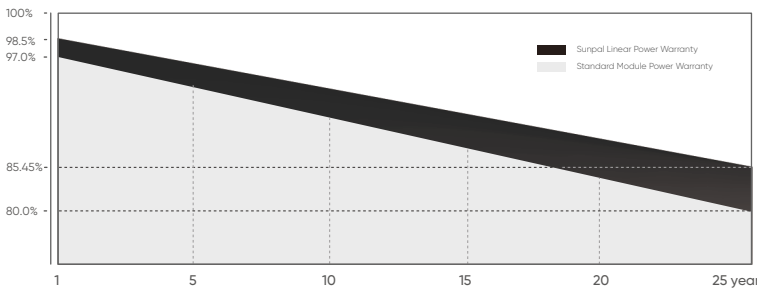
Conductive back sheet's 2D encapsulation avoids welding stress and micro crack, resulting lower degradation under multiple harsh testing conditions

#### HIGH ROI

Single-glass modules with global 30-year performance warranty bring higher return on investment

#### LEAD FREE

Eco-friendly PV design achieves lead-free MWT module without soldering materials



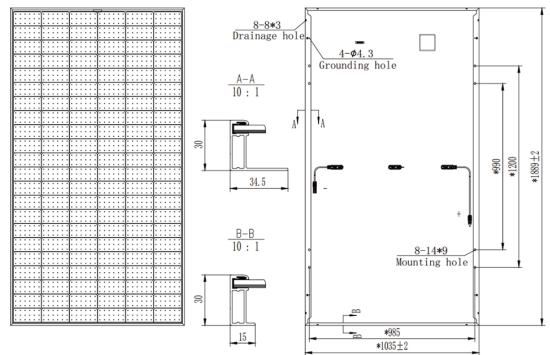
< \*1st year degradation less than 1.5%, 30 years linear power output 85.45% guaranteed. >

### COMPREHENSIVE QUALIFICATIONS & CERTIFICATIONS

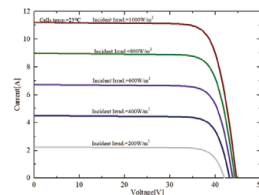
- ★ ISO 9001: 2015 QUALITY MANAGEMENT SYSTEM
- ★ ISO 14001: 2015 ENVIRONMENT MANAGEMENT SYSTEM
- ★ ISO 45001: 2018 OCCUPATION HEALTH SAFETY MANAGEMENT SYSTEM
- ★ CQC TOP RUNNER ADVANCED TECHNOLOGY CERTIFICATION (4A CLASS)
- ★ TUV NORD CERTIFICATION



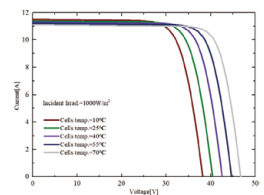
### Module Size



### I-V Curve



I-V Curves of SP385M-66H at different irradiance



I-V Curves of SP385M-66H at different cell temperature

# SP385~405M-66H

MWT Full Black Mono PERC Solar Module

Electrical Characteristics at Standard Test Conditions(STC)						
Spec/Model	Unit	SP385M-66H	SP390M-66H	SP395M-66H	SP400M-66H	SP405M-66H
Max-Power(Pm)	W	385	390	395	400	405
Power Tolerance	W	0~5%				
Max-Power Voltage(Vm)	V	36.5	36.7	36.9	37.1	37.3
Max-Power Current(I <sub>m</sub> )	A	10.55	10.63	10.73	10.79	10.86
Open-Circuit Voltage(Voc)	V	44.3	44.5	44.7	44.9	45.1
Short-Circuit Current(I <sub>sc</sub> )	A	11.07	11.14	11.21	11.28	11.35
Module Efficiency(η <sub>m</sub> )	%	19.7	19.9	20.2	20.5	20.7

STC: AM-1.5, Irradiation 1000W/m<sup>2</sup>, Module Temperature 25°C

Electrical Characteristics at Nominal Module Operating Temperature ( NMOT )						
Spec/Model	Unit	SP385M-66H	SP390M-66H	SP395M-66H	SP400M-66H	SP405M-66H
Max-Power(Pm)	W	288	292	296	300	305
Max-Power Voltage(Vm)	V	34.2	34.4	34.6	34.8	35.0
Max-Power Current(I <sub>m</sub> )	A	8.43	8.49	8.56	8.63	8.71
Open-Circuit Voltage(Voc)	V	41.4	41.6	41.8	42.0	42.2
Short-Circuit Current(I <sub>sc</sub> )	A	8.94	9.00	9.06	9.12	9.18

NMOT: Irradiation 800W/m<sup>2</sup>, Ambient temperature 20°C, Wind Speed 1m/s

Temperature Coefficient	
Nominal Module Operating Temperature	43±2°C
Temperature coefficient of P <sub>max</sub>	-0.36%/°C
Temperature coefficient of Voc	-0.28%/°C
Temperature coefficient of I <sub>sc</sub>	0.06%/°C

Mechanical Characteristics	
Dimension(L×W×H)	1889mm×1035mm×30mm
Weight	20.5kg
Glass type	High transmittance anti-reflective coated tempered glass /3.2mm
Cell	132(22×6) / Mono / Half-cell
Encapsulant	EVA
Frame	Anodized Aluminum Black
Junction box(Protection degree)	IP68
Cable	4mm <sup>2</sup> ,350mm(+)/150mm(-) or Customized-Length
Connector	MC4 Compatible

Operating Conditions	
Max. system voltage	DC1500V(TUV)
Max. series fuse rating	20A
Operating temperature range	-40°C ~ +85°C
Mechanical load	5400Pa/2400Pa
Max. hailstone impact(diameter/velocity)	Φ25mm hail, from 1 m of distance at 23 m/s
Application Class	Class A

Package	
Transportation	Container
Container Size	40'HQ
Quantity(pcs)	864
Quantity(per pallet)	36

