

## HY-182SHMN108-430W

HY-182SHMN108-430W HY-182SHMN108-425W  
HY-182SHMN108-420W HY-182SHMN108-415W

430W

Highest power output

22.02%

Module efficiency

1.0%

First-year degradation warranty

0.4%

Annual degradation over 30 years

## KEY FEATURES

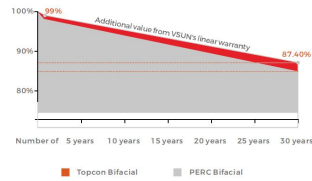
TOPCon TOPCon technology

- Higher output power
- MBB technology with Circular Ribbon
- Positive tolerance offer
- Bifacial cells, converting more sunlight into electricity
- Better shading tolerance
- Better temperature coefficient
- Lower LCOE

## ABOUT HONYU SOLAR

Honyu Solar is a global leading high-tech company integrating photovoltaic and energy storage product research and development, intelligent manufacturing and comprehensive energy solutions. Focusing on advanced and high-efficiency technology route, 600W+ and 700W+ module products have mass production capacity. By the end of 2024, it will open module and battery production bases in Vietnam, Saudi Arabia, Cambodia, the United States and other countries, with business in many countries and regions, and it is a trustworthy and leading partner in the industry.

## WARRANTY



## Electrical Characteristics at Standard Test Conditions(STC)

Module Type	HY-182SHMN108-430W	HY-182SHMN108-425W	HY-182SHMN108-420W	HY-182SHMN108-415W
Maximum Power - Pmax (W)	430	425	420	415
Open Circuit Voltage - Voc (V)	38.5	38.4	38.11	37.92
Short Circuit Current - Isc (A)	14.23	14.16	14.07	13.99
Maximum Power Voltage - Vmpp (V)	31.89	31.72	31.52	31.33
Maximum Power Current - Imp (A)	13.5	13.4	13.32	13.24
Module Efficiency	22.02%	21.76%	21.51%	21.25%

Standard Test Conditions (STC): irradiance 1,000 W/m<sup>2</sup>; AM 1.5; module temperature 25°C. Pmax Sorting : 0~5W. Measuring Tolerance: ±3%.  
Remark: Electrical data do not refer to a single module and they are not part of the offer. They only serve for comparison among different module types.

## Electrical Characteristics with different rear side power gain(reference to 425 front)

Pmax (W)	Voc (V)	Isc (A)	Vmpp (V)	Imp (A)	Pmax gain
446	38.40	14.87	31.72	14.07	5%
468	38.40	15.58	31.72	14.74	10%
509	38.47	16.99	31.67	16.08	20%
530	38.47	17.70	31.67	16.75	25%

## Material Characteristics

Dimensions	1722×1134×30mm (L×W×H) 67.80×44.65×1.18 inches (L×W×H)
Weight	21.4kg / 47.18lbs
Frame	Black anodized aluminum profile
Front Glass	AR-Coating toughened glass, 3.2 mm
Back Sheet	Transparent black-mesh backsheets
Cells	12×9 pcs mono solar cells series strings
Junction Box	IP68, 3 diodes
Cable	Potrait: 500 mm (cable length can be customized), 1×4 mm <sup>2</sup> or 12AWG. Connector: Công ty TNHH Công Nghệ Yonghao (Việt Nam)

## Packaging

Dimensions(L×W×H)	1760×1125×1253mm / 69.29×44.29×49.33inches
Quantity per pallet	36 pcs
Container 20'	216
Container 40'	468
Container 40'HC	936 or 828 for US

## System Design

Maximum System Voltage [V]	1500
Series Fuse Rating [A]	30
Bifaciality	80%±5%
Fire Rating	Class C for IEC and TYPE 1 for US
Protection Class	Class II
Temperature Range	-40 °C to + 85 °C
Maximum Surface Load	+5400/-2400 Pa +113/-50 psf
Application class	class A
Withstanding Hail	Maximum diameter of 25 mm with impact speed of 23 m/s

## Temperature Characteristics

NOCT	45°C(±2°C)
Voltage Temperature Coefficient	-0.26%/°C
Current Temperature Coefficient	+0.046%/°C
Power Temperature Coefficient	-0.30%/°C

## Dimensions

## IV-Curves

