

TOPCon



HONYU SOLAR

HY\$182DHMN108-445W

HY-182DHMN108-445W HY-182DHMN108-440W

HY-182DHMN108-435W HY-182DHMN108-430W

HY-182DHMN108-425W HY-182DHMN108-420W

445W

Highest power output

22.79%

Module efficiency

1.0%

First-year degradation warranty

0.4%

Annual degradation over 30 years

ABOUT HONYU SOLAR

Honyu Solar is a leading international renewable energy company which is committed to establishing a global production chain of PV products

and secure the supply of PV products around the world

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

WARRANTY



■ Topcon Bifacial

■ PERC Bifacial

Electrical Characteristics at Standard Test Conditions(STC)

Module Type	HY-182DHMN108-	HY-182DHMN108-	HY-182DHMN108-	HY-182DHMN108-	HY-182DHMN108-	HY-182DHMN108-
Maximum Power - Pmax (W)	445W	440W	435W	430W	425W	420W
Open Circuit Voltage - Voc (V)	39.10	38.90	38.70	38.50	38.30	38.10
Short Circuit Current - Isc (A)	14.55	14.49	14.43	14.37	14.31	14.25
Maximum Power Voltage - Vmpp (V)	31.56	31.36	31.16	30.96	30.76	30.56
Maximum Power Current - Imp (A)	14.10	14.04	13.96	13.89	13.82	13.75
Module Efficiency	22.79%	22.53%	22.28%	22.02%	21.76%	21.51%

Standard Test Conditions (STC): irradiance 1,000 W/m²; 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 435 front)

Pmax (W)	Voc (V)	Isc (A)	Vmpp (V)	Imp (A)	Pmax gain
457	39.12	14.49	33.13	13.79	5%
478	39.12	15.18	33.13	14.44	10%
521	39.20	16.56	33.05	15.76	20%
542	39.20	17.25	33.05	16.41	25%

Material Characteristics

Dimensions	1722×1134×30/35mm (L×W×H) 67.80×44.65×1.18 inches (L×W×H)
Weight	24.7kg / 54.45lbs
Frame	Silver anodized aluminum profile
Front Glass	AR-coating Semi-toughened glass, 2.0mm
Back Glass	Glazed & Semi-toughened glass, 2.0mm
Cells	9×12 pcs mono solar cells series strings
Junction Box	IP68, 3 diodes
Cable	Potrait: 300 mm (cable length can be customized), 1×4 mm ² or 12AWG, Connector: MC4 compatible

System Design

Maximum System Voltage [V]	1500
Series Fuse Rating [A]	30
Bifaciality	70%±10%
Fire Rating	Class C for IEC and TYPE 29 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

Packaging

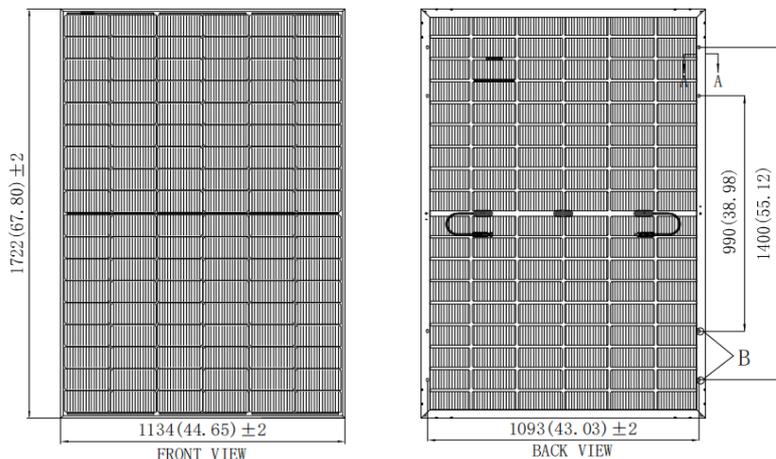
Dimensions(L×W×H)	1754×1110×1253mm / 69.06×43.70×49.33inches
Quantity per pallet	36/31 pcs
Container 20'	216/186
Container 40'	468 /403
Container 40'HC	936/806

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

Note:mm(inch)



IV-Curves

