

TOPCon



HONYU SOLAR

HY\$182DHMN120-490W

HY-182DHMN120-490W HY-182DHMN120-485W

HY-182DHMN120-480W HY-182DHMN120-475W

HY-182DHMN120-470W HY-182DHMN120-465W

490W

Highest power output

22.65%

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-182DHMN120-490W	HY-182DHMN120-485W	HY-182DHMN120-480W	HY-182DHMN120-475W	HY-182DHMN120-470W	HY-182DHMN120-465W
Maximum Power - Pmax (W)	490	485	480	475	470	465
Open Circuit Voltage - Voc (V)	43.35	43.15	42.95	42.75	42.55	42.35
Short Circuit Current - Isc (A)	14.42	14.36	14.30	14.24	14.18	14.12
Maximum Power Voltage - Vmpp (V)	35.07	34.87	34.67	34.47	34.27	34.07
Maximum Power Current - Imp (A)	13.98	13.91	13.85	13.78	13.72	13.65
Module Efficiency	22.65%	22.42%	22.18%	21.95%	21.72%	21.49%

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 485 front)

Pmax (W)	Voc (V)	Isc (A)	Vmpp (V)	Imp (A)	Pmax gain
509	43.30	14.57	36.72	13.87	5%
534	43.30	15.27	36.72	14.53	10%
581	43.38	16.66	36.64	15.85	20%
605	43.38	17.35	36.64	16.51	25%

Material Characteristics

Dimensions	1908×1134×30/35mm (L×W×H) 75.12×44.65×1.18 inches (L×W×H)
Weight	26.7kg / 58.86lbs
Frame	Silver anodized aluminum profile
Front Glass	AR-coating Semi-toughened glass, 2.0mm
Back Glass	Glazed & Semi-toughened glass, 2.0mm
Cells	10×12 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

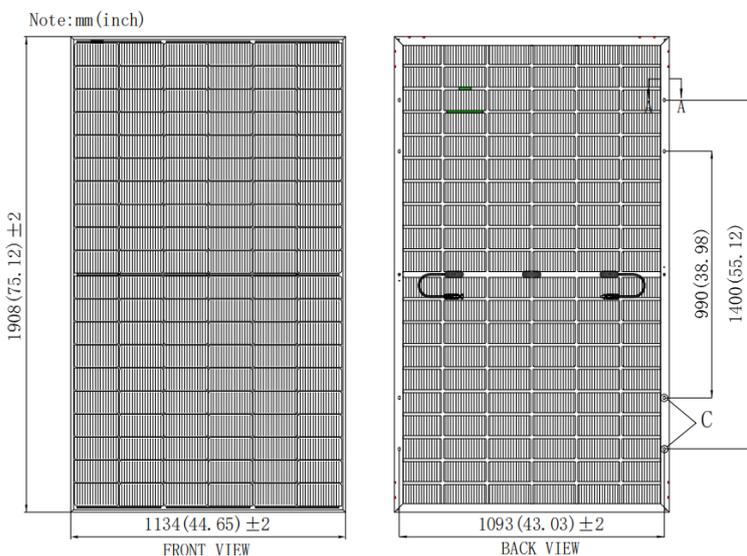
Packaging

Dimensions(L×W×H)	1940×1110×1253mm / 76.38×43.70×49.33inches
Quantity per pallet	36 / 31 pcs
Container 20'	180/155
Container 40'	432 / 372
Container 40'HC	864/744

Temperature Characteristics

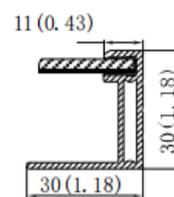
NOCT	45°C(±2°C)
Voltage Temperature Coefficient	-0.26%/°C
Current Temperature Coefficient	+0.046%/°C
Power Temperature Coefficient	-0.30%/°C

Dimensions

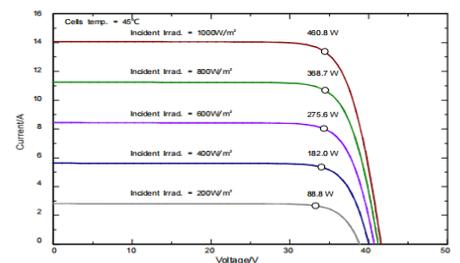
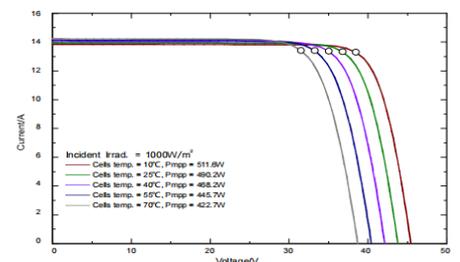
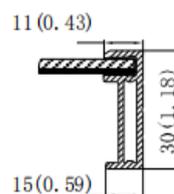


IV-Curves

A-A Frame



B-B Frame



Excellent performance under weak light condition.