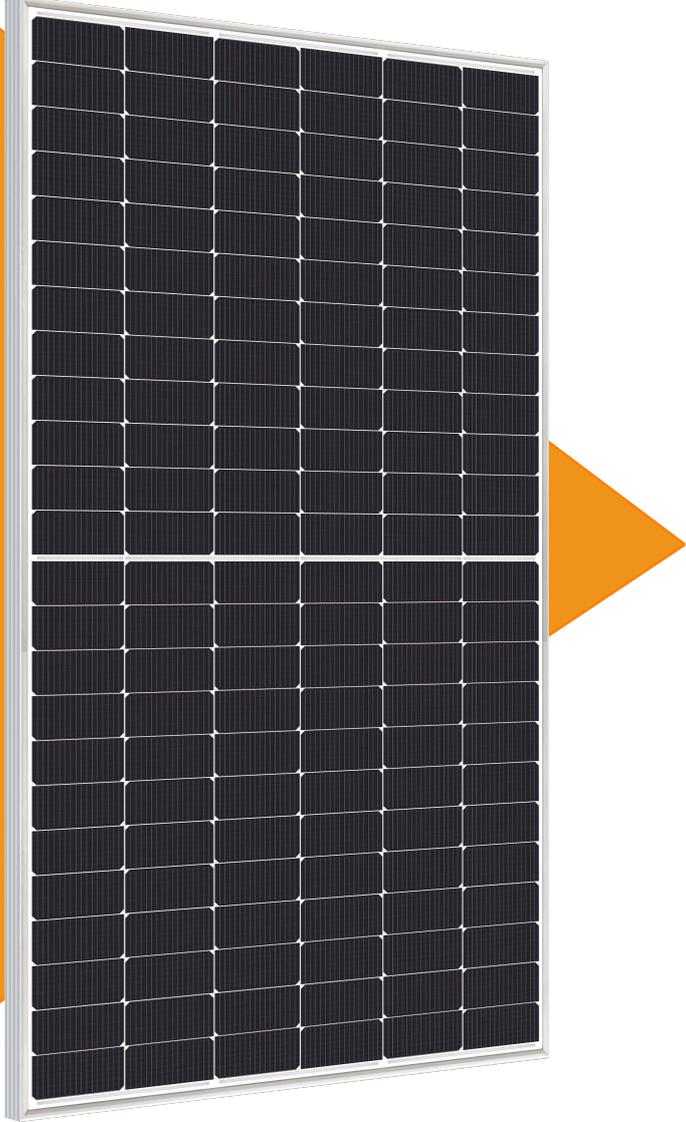


TOPCon



HONYU SOLAR

HY\$182DHMN144-590W

HY-182DHMN144-590W HY-182DHMN144-585W

HY-182DHMN144-580W HY-182DHMN144-575W

HY-182DHMN144-570W HY-182DHMN144-565W

590W

Highest power output

22.84%

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



Electrical Characteristics at Standard Test Conditions(STC)

Module Type	HY-182DHMN144-	HY-182DHMN144-	HY-182DHMN144-	HY-182DHMN144-	HY-182DHMN144-	HY182DHMN144-
	590W	585W	580W	575W	570W	565W
Maximum Power - Pmax (W)	590	585	580	575	570	565
Open Circuit Voltage - Voc (V)	51.88	51.68	51.48	51.28	51.08	50.88
Short Circuit Current - Isc (A)	14.48	14.42	14.36	14.30	14.24	14.18
Maximum Power Voltage - Vmpp (V)	42.08	41.88	41.68	41.48	41.28	41.08
Maximum Power Current - Imp (A)	14.03	13.97	13.92	13.87	13.81	13.76
Module Efficiency	22.84%	22.65%	22.45%	22.26%	22.07%	21.87%

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 585 front)

Pmax (W)	Voc (V)	Isc (A)	Vmpp (V)	Imp (A)	Pmax gain
614	52.25	14.57	44.29	13.87	5%
644	52.25	15.27	44.29	14.53	10%
701	52.33	16.66	44.21	15.85	20%
730	52.33	17.35	44.21	16.51	25%

Material Characteristics

Dimensions	2278×1134×30/35mm (L×W×H) 89.69×44.65×1.18 inches (L×W×H)
Weight	32.2kg / 70.99lbs
Frame	Silver anodized aluminum profile
Front Glass	AR-coating Semi-toughened glass, 2.0mm
Back Glass	Glazed & Semi-toughened glass, 2.0mm
Cells	12×12 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

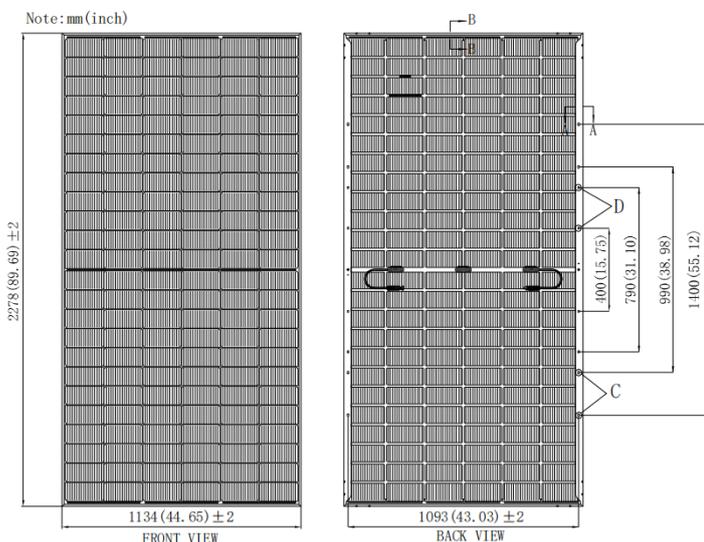
Packaging

Dimensions(L×W×H)	2310×1110×1253mm / 90.94×43.70×49.33inches
Quantity per pallet	36 /31pcs
Container 20'	180 /155
Container 40'	360 /310
Container 40'HC	720/620

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

