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Solar Panel Guide Specification Data Sheet

Shandong Dahai New Energy Development Co., Ltd.

DHP60H 270-290

DHP60H-280

Also available on the web at
EnergyPal.com/shandong-dahai-new-energy-development-co-ltd-solar-panels/dhp60h-280

DHP60H 270-290W

POLY-CRYSTALLINE HALF-CELL PV MODULE

Dahai Solar









Dahai Solar is a leading solar energy company with a current module capacity of 1.25 GW. By designing, manufacturing and providing efficient and economical ground-crystal solar photovoltaic modules, we provide our customers with the most outstanding photovoltaic products, system solutions and related services. Committed to creating maximum economic, social and human value for our customers, partners, investors and all stakeholders.



First-class warranty

-  **12 years product material and process warranty**
-  **25-year linear power output warranty**

Product Characteristics

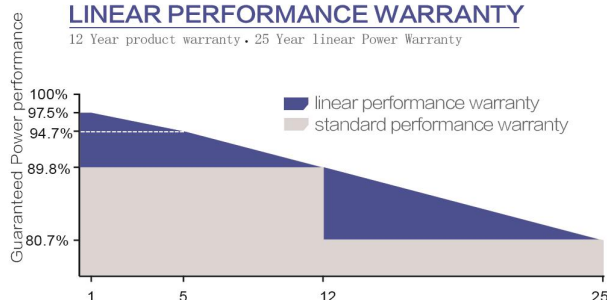
-  **High Power Output.** Using a half-cut cells structure (reducing internal consumption in module), the output power is increased by more than 3% compared with standard one, and the output power of 60 cells poly-crystalline modules is up to 290W (the conversion efficiency is up to 17.50%).
-  **The Anti-PID Performance.** With the anti-PID authoritative test under the harsh conditions of the industry (85°C/85% RH, 96 hours), the attenuation rate caused by the PID phenomenon will be the lowest.
-  **5 BB Cells.** All upgraded to 5 BB cells, with stronger current collecting capability, power output is more stable.
-  **Mechanical Load.** It is certified by the wind load of 2400Pa on the back of the module and the snow load of 5400Pa on the front.
-  **Low-light Performance.** Excellent output performance under low light conditions.
-  **Low Light Decay.** The rigorous ATLAS steady-state illumination test ensures excellent photo-attenuation performance for each batch of modules.
-  **Strict EL Testing.** The spatial resolution is less than 0.5mm, and two or more EL tests before and after to ensure zero defects inside the module.
-  **Fully Automatic Assembly Production Line.** Ensuring 100% production online, 100% testing online to ensure product quality consistency.

- IEC 61215, IEC 61730
- TÜV
- UL1703
- CQC
- CE
- JET
- ISO 9001: 2008
- ISO 14001:2004



LINEAR PERFORMANCE WARRANTY

12 Year product warranty • 25 Year Linear Power Warranty

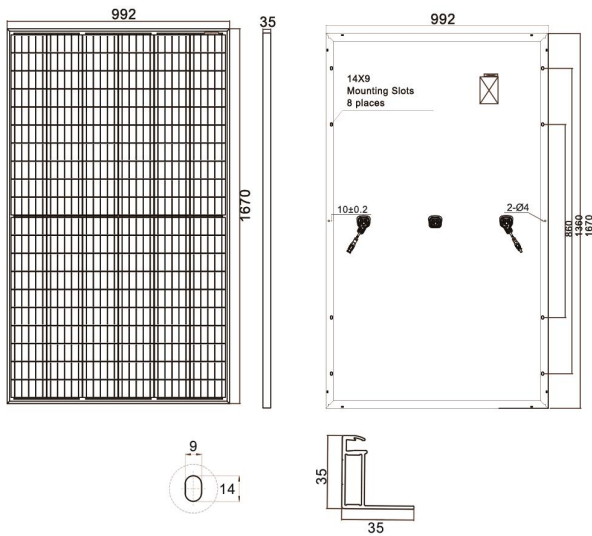


Packing configuration

	1670×992×35mm		1995×992×40mm	
	20'GP	40'HQ	20'GP	40'HQ
Container				
Pieces per Pallet	30	30	26	26
Pallets per Container	12	28	12	24
Pieces per Container	360	840	312	624

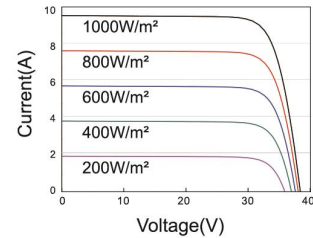
DHP60H 270-290W

Engineering Drawings

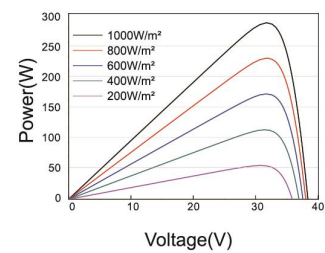


I-V Curve

Current-Voltage Curve DHP60H-285



Power-Voltage Curve DHP60H-285



Mechanical Data

Cell Type	Poly-crystalline 156.75x78.375mm
Weight	19.5kg
Dimensions	1670x992x35mm
No. of Half-cells	120(12x10)
No. of Diodes	3
Junction Box Connector	MC4 Compatible Connector
Packaging Configuration	30pcs/pallet, 60pcs/stack, 840 pcs/40'HQ Container
Cable Cross Section	4mm ²

Working Parameters

Maximum System Voltage	1000V (TUV)/1000V DC(UL)
Operating Temperature	-40°C~+85°C
Maximum Fuse Rated Current	15A
Maximum Static Load, Positive	5400Pa(112ib/ft ²)
Maximum Static Load, Back	2400Pa(50ib/ft ²)
Rated Cells Operating Temperature	45±2°C
Application Level	Class A

Electrical Performance Parameter

Module Type	DHP60H-270	DHP60H-275	DHP60H-280	DHP60H-285	DHP60H-290
Maximum Power(Pmax)[W]	270	275	280	285	290
Maximum Power Voltage(Vmp)[V]	31.07	31.35	31.63	31.91	32.23
Maximum Power Current(Imp)[A]	8.69	8.77	8.85	8.93	9.01
Open-circuit Voltage (Voc)[V]	37.70	37.73	37.97	38.21	38.50
Short-circuit Current(Isc)[A]	9.23	9.34	9.45	9.56	9.62
Module Efficiency (%)	16.30	16.60	16.90	17.20	17.50
Power Tolerance (%)	0~+5	0~+5	0~+5	0~+5	0~+5
Standard Test Environment	Radiation 1000W / m ² ; Module Temperature 25°C, Spectrum AM1.5, According to EN60904-3				

POLY-CRYSTALLINE HALF-CELL PV MODULE

Dahai Solar









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First-class warranty

-  **12 years product material and process warranty**
-  **25-year linear power output warranty**

Product Characteristics

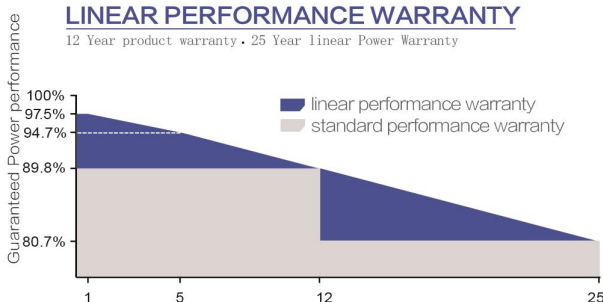
-  **High Power Output.** Using a half-cut cells structure (reducing internal consumption in module), the output power is increased by more than 3% compared with standard one, and the output power of 60 cells poly-crystalline modules is up to 345W (the conversion efficiency is up to 17.43%).
-  **The anti-PID Performance.** With the anti-PID authoritative test under the harsh conditions of the industry (85°C/85% RH, 96 hours), the attenuation rate caused by the PID phenomenon will be the lowest.
-  **5 BB Cells.** All upgraded to 5 BB cells, with stronger current collecting capability, power output is more stable.
-  **Mechanical Load.** It is certified by the wind load of 2400Pa on the back of the module and the snow load of 5400Pa on the front.
-  **Low-light Performance.** Excellent output performance under low light conditions.
-  **Low Light Decay.** The rigorous ATLAS steady-state illumination test ensures excellent photo-attenuation performance for each batch of modules.
-  **Strict EL Testing.** The spatial resolution is less than 0.5mm, and two or more EL tests before and after to ensure zero defects inside the module.
-  **Fully Automatic Assembly Production Line.** Ensuring 100% production online, 100% testing online to ensure product quality consistency.

- IEC 61215, IEC 61730
- TUV
- UL1703
- CQC
- CE
- JET
- ISO 9001: 2008
- ISO 14001:2004



LINEAR PERFORMANCE WARRANTY

12 Year product warranty • 25 Year Linear Power Warranty

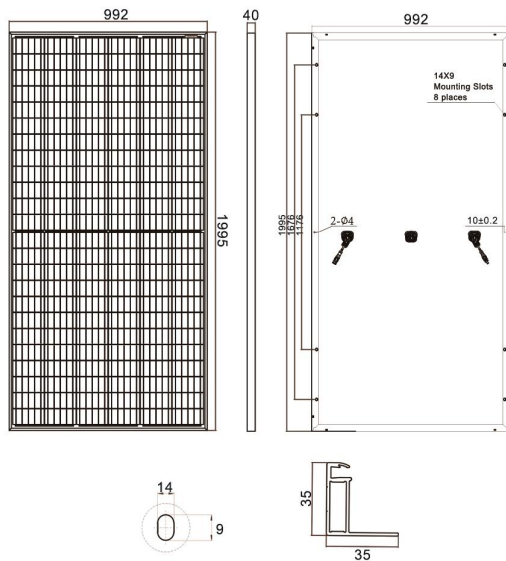


Packing configuration

	1670×992×35mm		1995×992×40mm	
	20'GP	40'HQ	20'GP	40'HQ
Container				
Pieces per Pallet	30	30	26	26
Pallets per Container	12	28	12	24
Pieces per Container	360	840	312	624

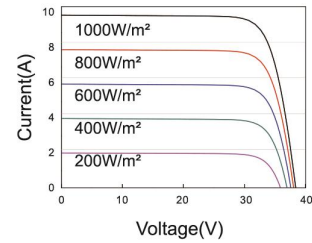
DHP72H 325-345W

Engineering Drawings

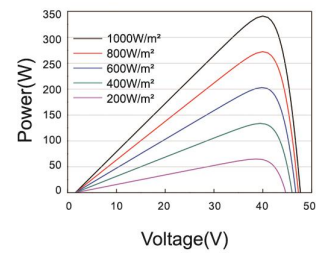


I-V Curve

Current-Voltage Curve DHP72H-340



Power-Voltage Curve DHP72H-340



Mechanical Data

Cell Type	Poly-crystalline 156.75x78.375mm
Weight	26.5kg
Dimensions	1995x992x40mm
No. of Half-cells	144(12x12)
No. of Diodes	3
Junction Box Connector	MC4 Compatible Connector
Packaging Configuration	26PCS/Pallet
Cable Cross Section	4mm ²

Working Parameters

Maximum System Voltage	1000V (TUV)/1000V DC(UL)
Operating Temperature	-40°C~+85°C
Maximum Fuse Rated Current	15A
Maximum Static Load, Positive	5400Pa(112ib/ft ²)
Maximum Static Load, Back	2400Pa(50ib/ft ²)
Rated Cells Operating Temperature	45±2°C
Application Level	ClassA

Electrical Performance Parameter

Module Type	DHP72H-325	DHP72H-330	DHP72H-335	DHP72H-340	DHP72H-345
Maximum Power(Pmax)[W]	325	330	335	340	345
Maximum Power Voltage(Vmp)[V]	37.48	37.71	37.93	38.15	38.37
Maximum Power Current(Imp)[Adc]	8.67	8.75	8.83	8.91	8.99
Open-circuit Voltage (Voc)[V]	45.48	45.78	46.07	46.36	46.64
Short-circuit Current(Isc)[Adc]	9.16	9.24	9.32	9.40	9.48
Module Efficiency(%)	16.42	16.67	16.93	17.18	17.43
Power Tolerance(W)	0~+5	0~+5	0~+5	0~+5	0~+5
Standard Test Environment	Radiation 1000W / m ² , Module Temperature 25°C, Spectrum AM1.5, According to EN60904-3				

DHM60H 305-325W

DAHAI SOLAR
CLEAN ENERGY FOR A CLEAN WORLD

Mono-crystalline Half-cell PV Module

Dahai Solar









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First-class warranty

-  **12 years product material and process warranty**
-  **25-year linear power output warranty**

Product Characteristics

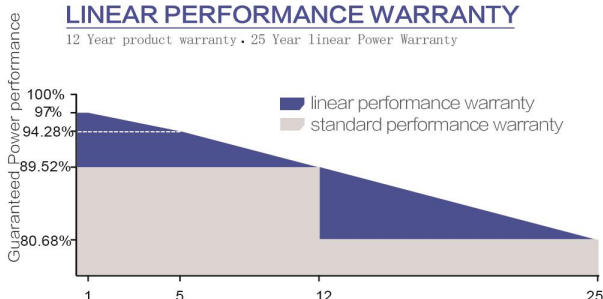
-  **High Power Output.** Using a half-cut cells structure (reducing internal consumption in module), the output power is increased by more than 3% compared with standard one, and the output power of 60 cells poly-crystalline modules is up to 325W (the conversion efficiency is up to 19.61%).
-  **The Anti-PID Performance.** With the anti-PID authoritative test under the harsh conditions of the industry (85°C/85% RH, 96 hours), the attenuation rate caused by the PID phenomenon will be the lowest.
-  **5 BB Cells.** All upgraded to 5 BB cells, with stronger current collecting capability, power output is more stable.
-  **Mechanical Load.** It is certified by the wind load of 2400Pa on the back of the module and the snow load of 5400Pa on the front.
-  **Low-light Performance.** Excellent output performance under low light conditions.
-  **Low Light Decay.** The rigorous ATLAS steady-state illumination test ensures excellent photo-attenuation performance for each batch of modules.
-  **Strict EL Testing.** The spatial resolution is less than 0.5mm, and two or more EL tests before and after to ensure zero defects inside the module.
-  **Fully Automatic Assembly Production Line.** Ensuring 100% production online, 100% testing online to ensure product quality consistency.

- IEC 61215, IEC 61730
- TÜV
- UL1703
- CQC
- CE
- JET
- ISO 9001: 2008
- ISO 14001:2004



LINEAR PERFORMANCE WARRANTY

12 Year product warranty • 25 Year Linear Power Warranty

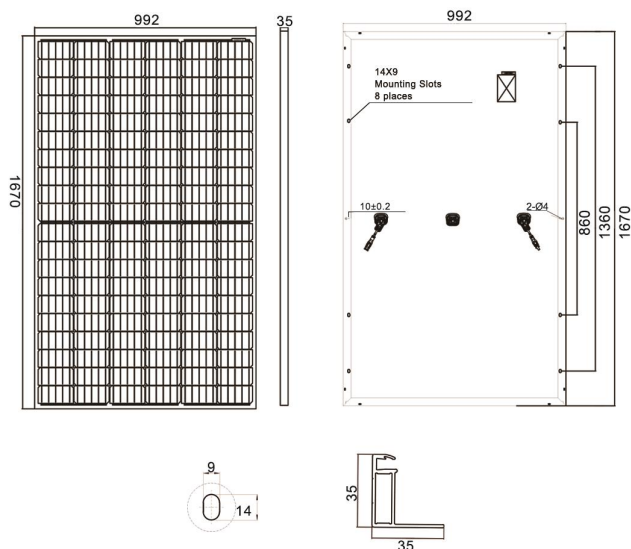


Packing configuration

	1670×992×35mm		1995×992×40mm	
	20'GP	40'HQ	20'GP	40'HQ
Container				
Pieces per Pallet	30	30	26	26
Pallets per Container	12	28	12	24
Pieces per Container	360	840	312	624

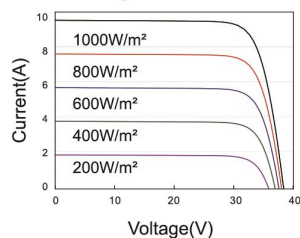
DHM60H 305-325W

Engineering Drawings

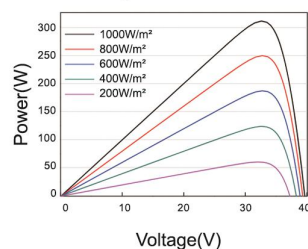


I-V Curve

Current-Voltage Curve DHM60H-305



Power-Voltage Curve DHM60H-305



Mechanical Data

Cell Type	Monocrystalline 156.75x78.375mm
Weight	19.5kg
Dimensions	1670x992x35mm
No. of Half-cells	120(12x10)
No. of Diodes	3
Junction Box Connector	MC4 Compatible Connector
Packaging Configuration	30pcs/pallet, 60pcs/stack
Cable Cross Section	4mm

Working Parameters

Maximum System Voltage	1000V (TUV)/1000V DC(UL)
Operating Temperature	-40°C~+85°C
Maximum Fuse Rated Current	15A
Maximum Static Load, Positive	5400Pa(112ib/ft²)
Maximum Static Load, Back	2400Pa(50ib/ft²)
Rated Cells Operating Temperature	45±2°C
Application Level	ClassA

Electrical Performance Parameter

Module Type	DHM60H-305	DHM60H-310	DHM60H-315	DHM60H-320	DHM60H-325
Maximum Power(Pmax)[W]	305	310	315	320	325
Maximum Power Voltage(Vmp)[V]	32.41	32.70	32.98	33.26	33.53
Maximum Power Current(Imp)[A]	9.41	9.48	9.55	9.62	9.69
Open-circuit Voltage (Voc)[V]	39.17	39.54	39.90	40.25	40.59
Short-circuit Current(Isc)[A]	9.98	10.05	10.12	10.19	10.26
Module Efficiency(%)	18.41	18.71	19.01	19.31	19.61
Power Tolerance(W)	0~+5	0~+5	0~+5	0~+5	0~+5
Standard Test Environment	Radiation 1000W / m , Module Temperature 25°C , Spectrum AM1.5, According to EN60904-3				

DHM72H 370-390W

MONO-CRYSTALLINE HALF-CELL PV MODULE

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First-class warranty

-  **12 years product material and process warranty**
-  **25-year linear power output warranty**

Product Characteristics

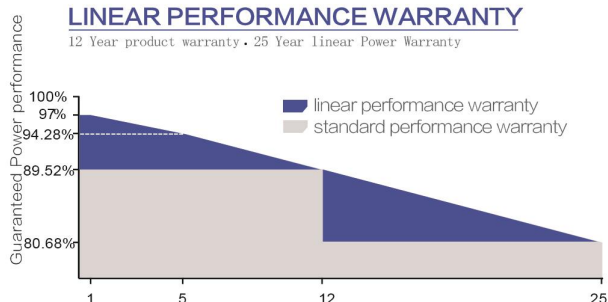
-  **High Power Output.** Using a half-cut cells structure (reducing internal consumption in module), the output power is increased by more than 3% compared with standard one, and the output power of 60 cells poly-crystalline modules is up to 390W (the conversion efficiency is up to 19.70%).
-  **The anti-PID Performance.** With the anti-PID authoritative test under the harsh conditions of the industry (85°C/85% RH, 96 hours), the attenuation rate caused by the PID phenomenon will be the lowest.
-  **5 BB Cells.** All upgraded to 5 BB cells, with stronger current collecting capability, power output is more stable.
-  **Mechanical Load.** It is certified by the wind load of 2400Pa on the back of the module and the snow load of 5400Pa on the front.
-  **Low-light Performance.** Excellent output performance under low light conditions.
-  **Low Light Decay.** The rigorous ATLAS steady-state illumination test ensures excellent photo-attenuation performance for each batch of modules.
-  **Strict EL Testing.** The spatial resolution is less than 0.5mm, and two or more EL tests before and after to ensure zero defects inside the module.
-  **Fully Automatic Assembly Production Line.** Ensuring 100% production online, 100% testing online to ensure product quality consistency.

- IEC 61215, IEC 61730
- TUV
- UL1703
- CQC
- CE
- JET
- ISO 9001: 2008
- ISO 14001:2004



LINEAR PERFORMANCE WARRANTY

12 Year product warranty • 25 Year Linear Power Warranty

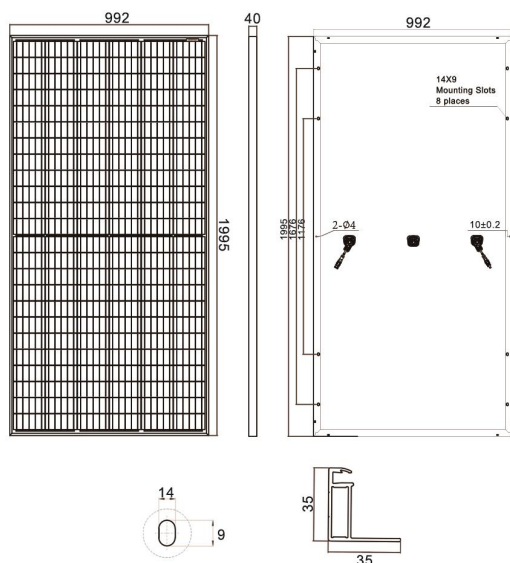


Packing configuration

	1670×992×35mm		1995×992×40mm	
	20'GP	40'HQ	20'GP	40'HQ
Container	20'GP	40'HQ	20'GP	40'HQ
Pieces per Pallet	30	30	26	26
Pallets per Container	12	28	12	24
Pieces per Container	360	840	312	624

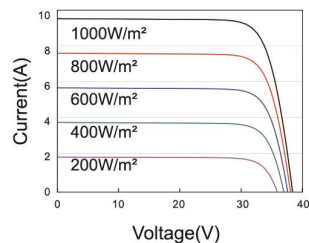
DHM72H 370-390W

Engineering Drawings

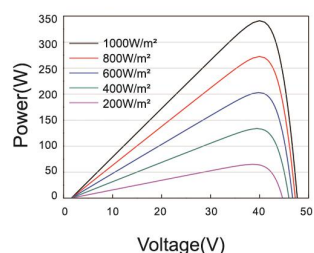


I-V Curve

Current-Voltage Curve DHM72H-370



Power-Voltage Curve DHM72H-370



Mechanical Data

Cell Type	Poly-crystalline 156.75x78.375mm
Weight	26.5kg
Dimensions	1995x992x40mm
No. of Half-cells	144(12x12)
No. of Diodes	3
Junction Box Connector	MC4 Compatible Connector
Packaging Configuration	26PCS/Pallet
Cable Cross Section	4mm ²

Working Parameters

Maximum System Voltage	1000V (TUV)/1000V DC(UL)
Operating Temperature	-40°C~+85°C
Maximum Fuse Rated Current	15A
Maximum Static Load, Positive	5400Pa(112ib/ft ²)
Maximum Static Load, Back	2400Pa(50ib/ft ²)
Rated Cells Operating Temperature	45±2°C
Application Level	ClassA

Electrical Performance Parameter

Module Type	DHM72H-370	DHM72H-375	DHM72H-380	DHM72H-385	DHM72H-390
Maximum Power(Pmax)[W]	370	375	380	385	390
Maximum Power Voltage(Vmp)[V]	39.11	39.34	39.58	39.81	40.04
Maximum Power Current(Imp)[Adc]	9.46	9.53	9.60	9.67	9.81
Open-circuit Voltage (Voc)[V]	47.62	47.96	48.32	48.67	49.01
Short-circuit Current(Isc)[Adc]	9.96	10.02	10.08	10.14	10.20
Module Efficiency(%)	18.69	18.94	19.19	19.45	19.70
Power Tolerance(W)	0~+5	0~+5	0~+5	0~+5	0~+5
Standard Test Environment	Radiation 1000W / m ² , Module Temperature 25°C, Spectrum AM1.5, According to EN60904-3				