

DHN-78X16 620~645W

High Efficiency Single Glass PV Module

Comprehensive Products & System Certificates

IEC 61215 / IEC 61730 / CE / INMETRO
ISO 45001
2018/International standards for occupational health & safety
ISO 14001
2015/Standards for environmental management system
ISO 9001
2015/Quality management system

15 Material & technology warranty

30 Linear power output warranty



Higher power, longer service life, linear power warranty for 30 years



TOPCon cells have a lower decay rate,
≤ 1% in the first year and ≤ 0.4% in the second year



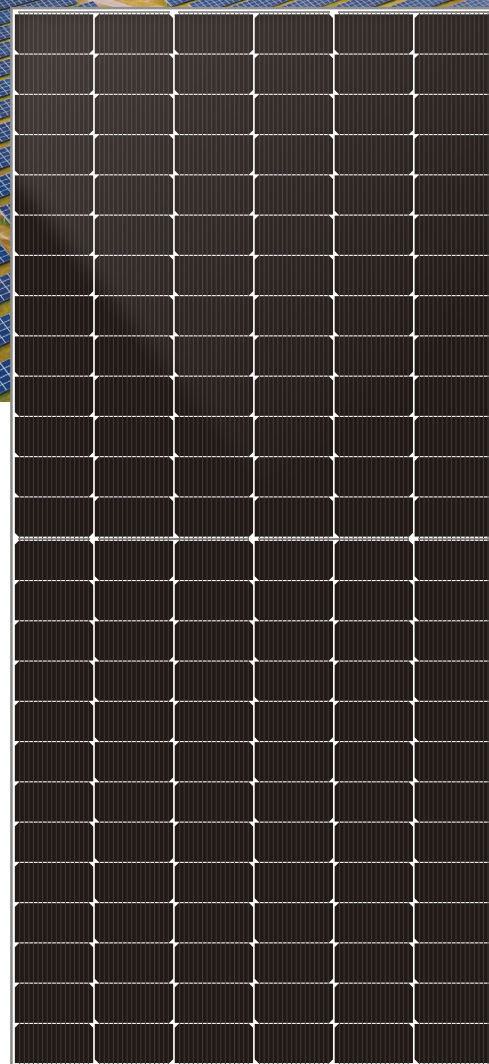
Lower temperature coefficient,
better high-temperature resistance, reduced power loss



Better weak light performance, higher power generation under
low light conditions, with 0.5% -1% more power generation

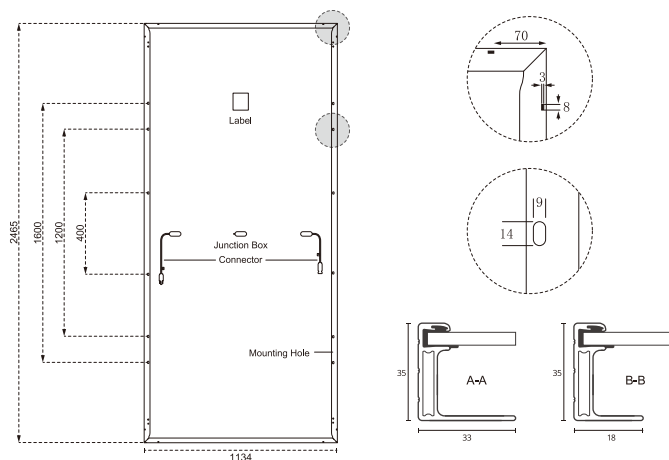


LECO laser assisted sintering technology,
reduces contact resistance and improves efficiency by 0.2% -0.5%

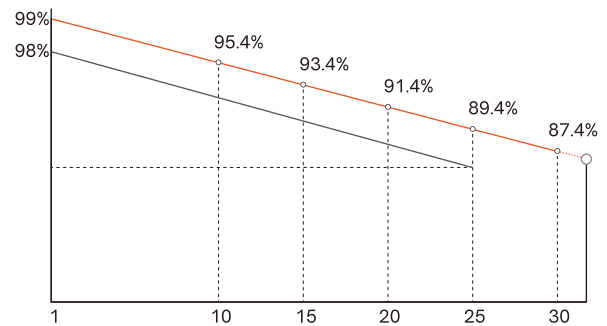


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Design



30-Year Linear Power Output Warranty



— DAH Solar linear power output guarantee
— Standard linear power output guarantee

Mechanical Specification

No. of Cells	156 (6×26)
Weight	29.5kg
Cells Type	N-type 182×91mm
Dimension (L×W×T)	2465×1134×35mm
Packing	31pcs/Pallet, 496pcs/40HQ

Cable(Including connector)	4.0mm ² , 300/200mm in length, length can be customized
Glass	3.2mm High Transmission, Antireflection Coating
Junction Box	IP68, 3 Bypass Diodes
Connector	MC4 Compatible

STC-Electrical Characteristics

Module Type	DHN-78X16					
Maximum Power (P _{max} /W)	620	625	630	635	640	645
Open-circuit Voltage (V _{oc} /V)	55.6	55.8	56.0	56.2	56.4	56.6
Maximum Power Voltage (V _{mp} /V)	46.8	47.0	47.2	47.4	47.6	47.8
Short-circuit Current (I _{sc} /A)	14.08	14.14	14.20	14.26	14.32	14.38
Maximum Power Current (I _{mp} /A)	13.25	13.30	13.35	13.40	13.45	13.49
Module Efficiency (%)	22.18	22.36	22.54	22.72	22.90	23.07

STC-Standard Test Environment: Irradiance 1000W/m², Cell temperature 25°C, Spectrum AM1.5

NOCT-Electrical Characteristics

Maximum Power (P _{max} /W)	466	470	474	478	481	485
Open-circuit Voltage (V _{oc} /V)	52.8	53.0	53.2	53.4	53.6	53.8
Maximum Power Voltage (V _{mp} /V)	44.5	44.7	44.8	45.0	45.2	45.4
Short-circuit Current (I _{sc} /A)	11.37	11.42	11.46	11.51	11.56	11.61
Maximum Power Current (I _{mp} /A)	10.49	10.53	10.57	10.60	10.64	10.68

NOCT-Standard Test Environment: Irradiance 800W/m², Ambient temperature 20°C, Spectrum AM1.5, Wind speed 1m/s

Operating Parameters

Maximum System Voltage	1500V DC
Operating Temperature	-40 ~ +85°C
Maximum Series Fuse Rating	25A
Nominal Operating Cell Temperature	45°C±2°C
Application Level	Class A

Temperature Coefficient

Temperature Coefficient of I _{sc} (α _{Isc})	0.046%/°C
Temperature Coefficient of V _{oc} (β _{Voc})	-0.25%/°C
Temperature Coefficient of P _{max} (γ _{Pmp})	-0.29%/°C
Snow load, frontside / Wind load, backside	5400Pa/2400Pa