

DHN-72R18/DG/FS

610~630W

Full-Screen Double 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

 Material & technology warranty

 Linear power output warranty



Frameless design, installable both vertically & horizontally,
No water, no dust, snow slide fast, power generation increased by 6-15%



Rectangular cells (182mm x 191.6mm) with higher power



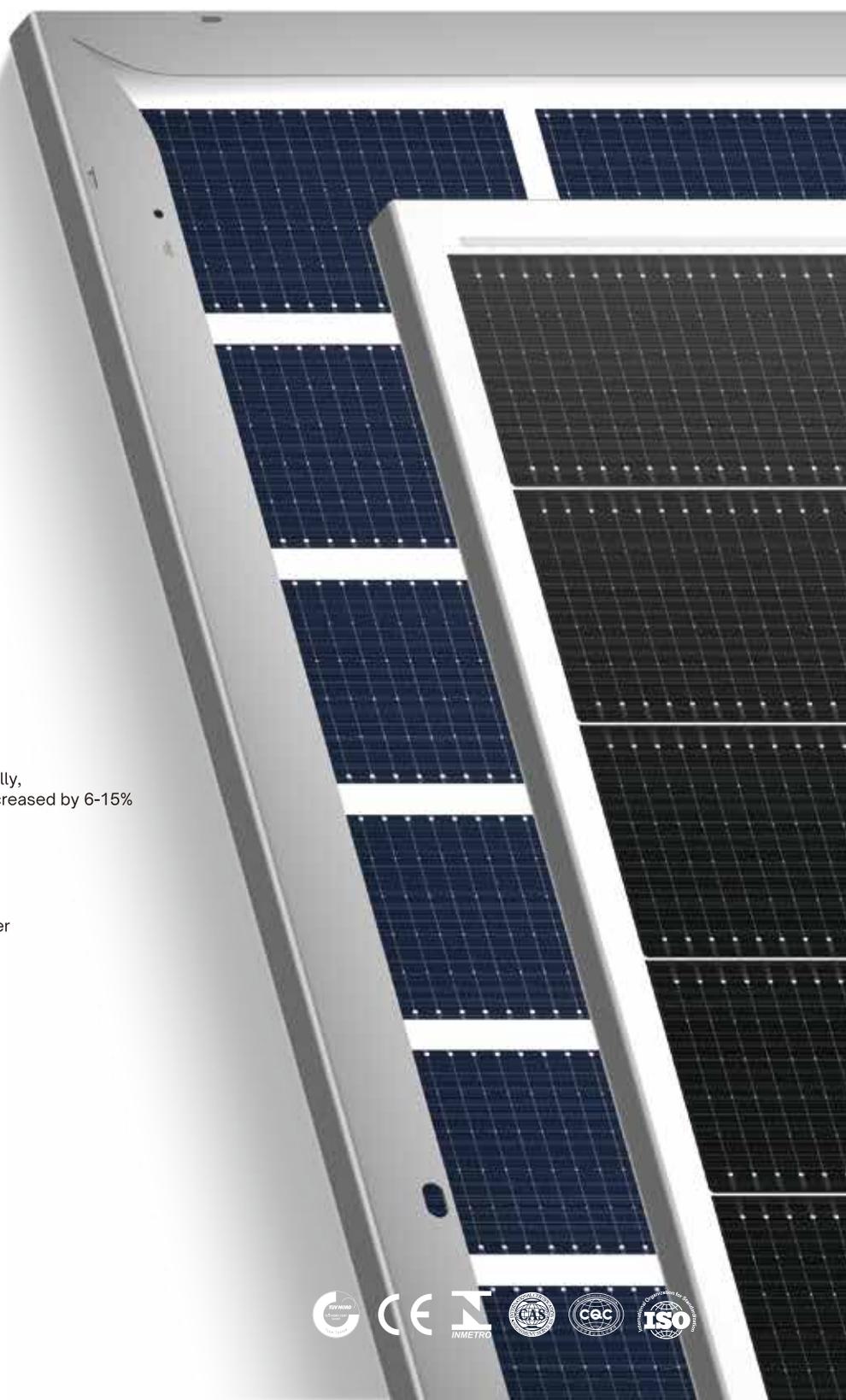
TOPCon cells double-sided rate up to 85% and
more back power generation by 5-25%



Double-glass Technology,
higher encapsulation blocking and mechanical strength

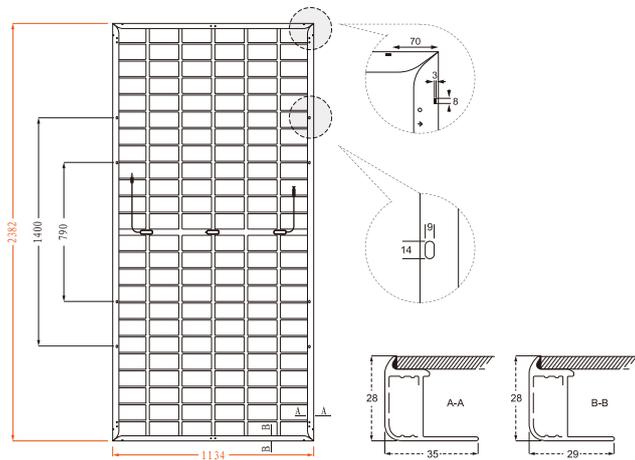


TOPCon cells, lower attenuation,
better temperature coefficient & dim light performance

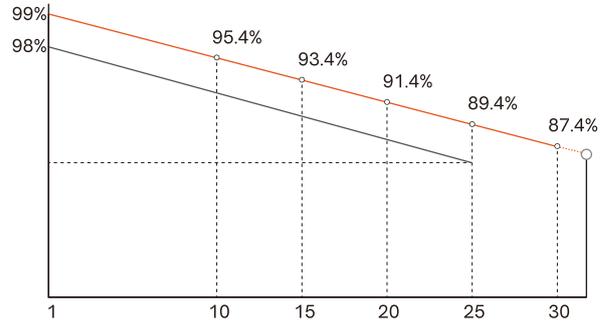


DHN-72R18/DG/FS 610~630W

Design



30-Year Linear Power Output Warranty



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

Mechanical Specification

No. of Cells	144 (6×24)
Weight	32.9kg
Cells Type	N-type 182×95.8mm
Dimension (L×W×T)	2382×1134×28mm
Packing	38pcs/pallet, 760pcs/40HQ
Encapsulant	POE/POE

Cable	4.0mm ² , 300/200mm in length, (Including connector) length can be customized
Glass	2.0mm High Transmission, Antireflection Coating
Junction Box	IP68, 3 Bypass Diodes
Connector	MC4 Compatible

Electrical Characteristics

Module Type	DHN-72R18/DG/FS											
	STC		NOCT		STC		NOCT		STC		NOCT	
Test conditions	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT
Maximum Power (P _{max} /W)	610	459	615	462	620	466	625	470	630	474		
Open-circuit Voltage (V _{oc} /V)	52.4	49.8	52.6	50.0	52.8	50.2	53.0	50.4	53.2	50.5		
Maximum Power Voltage (V _{mp} /V)	44.6	42.4	44.8	42.6	45.0	42.8	45.2	42.9	45.4	43.1		
Short-circuit Current (I _{sc} /A)	14.72	11.88	14.78	11.93	14.84	11.98	14.90	12.03	14.96	12.08		
Maximum Power Current (I _{mp} /A)	13.68	10.83	13.73	10.87	13.78	10.91	13.83	10.95	13.88	10.98		
Module Efficiency (STC)	22.58%		22.77%		22.95%		23.14%		23.32%			
Refer Bifacial Factor	80±5%											

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

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

Double-Sided Power Generation Parameters (Rear gain)

Gain	Parameter	610W	615W	620W	625W	630W
5%	Maximum Power (P _{max})	641	646	651	656	662
	Module Efficiency (%)	23.7	23.9	24.1	24.3	24.5
15%	Maximum Power (P _{max})	701.5	707.3	713.0	718.8	724.5
	Module Efficiency (%)	26.0	26.2	26.4	26.6	26.8
25%	Maximum Power (P _{max})	762.5	768.8	775.0	781.3	787.5
	Module Efficiency (%)	28.2	28.5	28.7	28.9	29.2

Operating Parameters

Maximum System Voltage	1500V DC
Operating Temperature	-40 ~ +85°C
Maximum Series Fuse Rating	30A
Nominal Operating Cell Temperature	45°C±2°C
Application Level	Class A

Temperature Coefficient

Temperature Coefficient of I _{sc} (ΔI _{sc})	0.046%/°C
Temperature Coefficient of V _{oc} (ΔV _{oc})	-0.25%/°C
Temperature Coefficient of P _{max} (ΔP _{mp})	-0.29%/°C
Snow load, frontside / Wind load, backside	5400Pa/2400Pa