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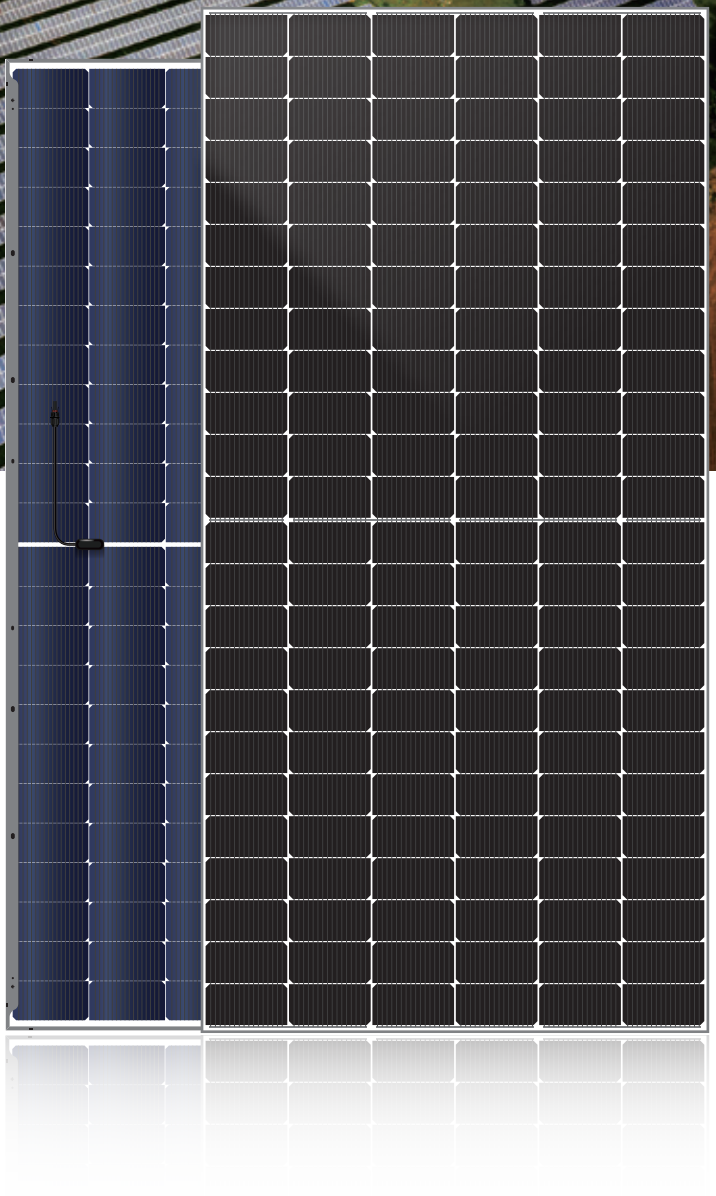
TIER 1
BloombergNEF

DHN-72K16/DG
585~595W
High Efficiency 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

15 Material & technology warranty

30 Linear power output warranty

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

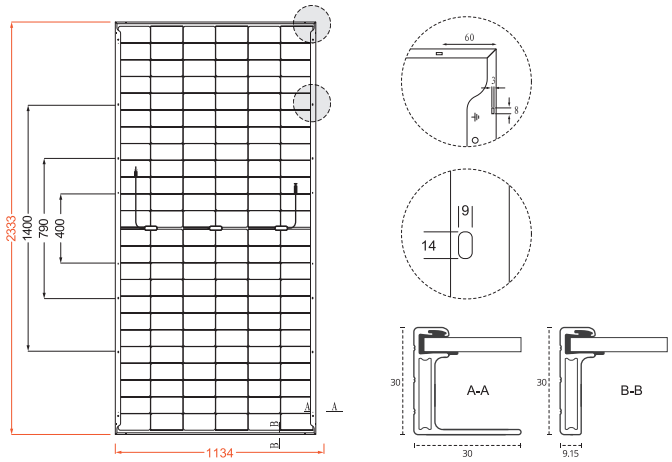
Higher performance in anti hidden cracking, acid and alkali, salt spray, water vapor, UV, PID

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

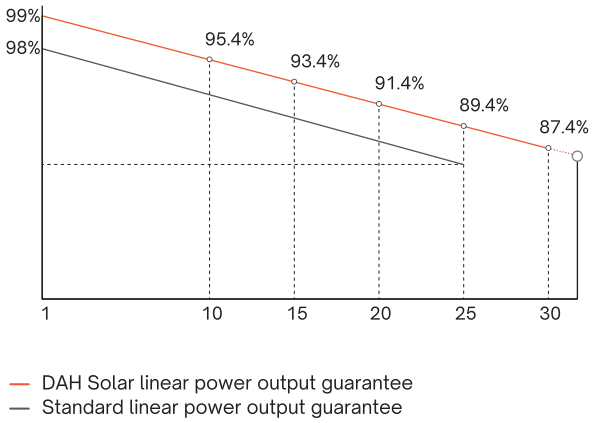
LECO laser assisted sintering technology, reduces contact resistance and improves efficiency by 0.2% -0.5%

DHN-72K16/DG 585~595W

Design



30-Year Linear Power Output Warranty



Mechanical Specification

No.of Cells	144 (6×24)
Weight	31.9kg
Cells Type	N-type 182×94mm
Dimension (L×W×T)	2333×1134×30mm
Packing	36pcs/Pallet, 720pcs/40HQ

Cable(Including connector)	4.0mm², 300/200mm in length, 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-72K16/DG					
Test conditions	STC	NOCT	STC	NOCT	STC	NOCT
Maximum Power (Pmax/W)	585	441	590	445	595	448
Open-circuit Voltage (Voc/V)	53.7	51.0	53.9	51.2	54.1	51.4
Maximum Power Voltage (Vmp/V)	45.1	42.8	45.3	43.0	45.5	43.2
Short-circuit Current (Isc/A)	13.93	11.25	13.99	11.29	14.05	11.34
Maximum Power Current (Imp/A)	12.97	10.29	13.02	10.33	13.08	10.37
Module Efficiency (STC)	22.1%		22.3%		22.5%	
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)

5%	Maximum Power (Pmax)	614	620	625
	Module Efficiency (%)	23.2	23.4	23.6
15%	Maximum Power (Pmax)	672.8	678.5	684.3
	Module Efficiency (%)	25.4	25.6	25.9
25%	Maximum Power (Pmax)	731.3	737.5	743.8
	Module Efficiency (%)	27.6	27.9	28.1

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 Isc (αIsc)	0.046%/°C
Temperature Coefficient of Voc (βVoc)	-0.25%/°C
Temperature Coefficient of Pmax (γPmp)	-0.29%/°C
Snow load, frontside / Wind load, backside	5400Pa/2400Pa

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