

STAR Pro SERIES N-TOPCon 144-cell MODULE BIFACIAL

EG-NT72-HL/BF-DG

580~610W

0~3% POSITIVE TOLERANCE

KEY FEATURES



SMBB cell design
Super multi Busbar cells bring lower resistance and increased Busbar reflectance ensures higher power output



Low degradation
Adopt N-Type TOPCon cell technology, lower degradation and better temperature co-efficiency, greatly increased on generation performance



High Reliability
Strict in-house testing in PV Lab which is CNAS approved & TUV /VDE certified



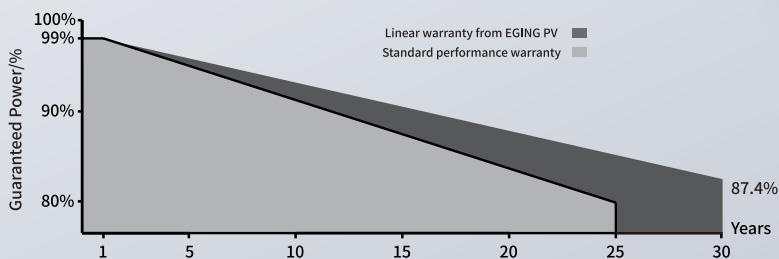
Excellent Low-light Performance
Advanced solar cell and glass surface texturing technology allows for excellent performance in low-light environments



PID Resistant
Excellent PID resistance performance optimized by unique structural design

LINEAR PERFORMANCE WARRANTY

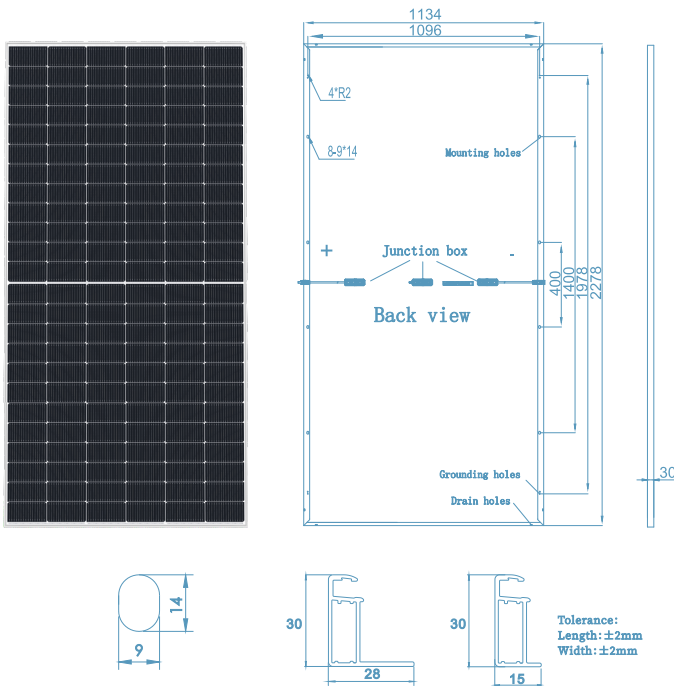
15 Year Product Warranty **30 Year Linear Power Warranty**



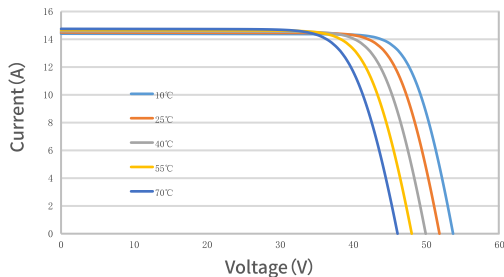
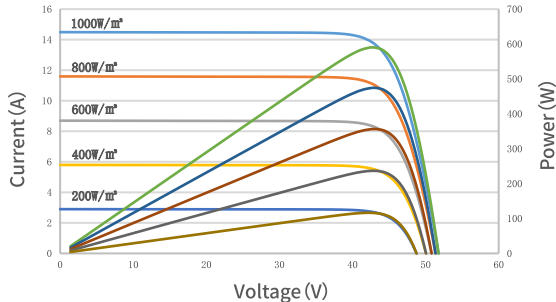
As a BloombergNEF Tier 1 and global leading manufacturer since 1998, EGING PV is committed to supplying reliable and durable PV products to customers to create together a greener planet.

EG-NT72-HL/BF-DG

Engineering Drawings



I-V Curves(590W)



Packing Configuration

Pieces per Pallet	36
Size of Packing (mm)	2320*1135*1255
Weight of Packing (kg)	1186
Pieces per Container	720
Size of Container	40' HC

Electrical Characteristics(STC)

Test uncertainty for Pmax: ±3%

Power Level	580	585	590	595	600	605	610
Pmax (W)	580	585	590	595	600	605	610
Vmp (V)	42.71	42.89	43.07	43.25	43.42	43.60	43.78
Imp (A)	13.58	13.64	13.70	13.76	13.82	13.88	13.94
Voc (V)	51.42	51.60	51.78	51.96	52.14	52.32	52.50
Isc (A)	14.37	14.43	14.49	14.55	14.61	14.67	14.73
Module Efficiency (%)	22.5	22.6	22.8	23.0	23.2	23.4	23.6
Maximum System Voltage (V)	1500						
Fuse Rating (A)	30						
Temperature Coefficient Pmax (%/°C)	-0.29						
Temperature Coefficient Isc (%/°C)	0.046						
Temperature Coefficient Voc (%/°C)	-0.24						

STC: Irradiance 1000W/m², module temperature 25°C, AM=1.5

Bifacial Output-Backside Power Gain

	Pmax(W)	638	644	649	655	660	666	671
10%	Module Efficiency (%)	24.7	24.9	25.1	25.4	25.5	25.8	26.0
20%	Pmax(W)	696	702	708	714	720	726	732
	Module Efficiency (%)	26.9	27.2	27.4	27.6	27.9	28.1	28.3

Working Characteristics(NOCT)

Power Level	580	585	590	595	600	605	610
Pmax (W)	436	441	445	448	452	456	460
Vmp (V)	39.90	40.10	40.28	40.47	40.66	40.84	41.02
Imp (A)	10.93	11.00	11.05	11.10	11.15	11.20	11.25
Voc (V)	48.92	49.14	49.32	49.53	49.73	49.91	50.09
Isc (A)	11.59	11.64	11.69	11.74	11.79	11.84	11.89
Power Tolerance (%)	0~+3						
NOCT (°C)	44±2						

NOCT: Conditions: Irradiance 800W/m², ambient temperature 20°C, wind speed 1m/s

Working Characteristics (BNPI)

Pmax (W)	642	648	653	659	665	670	676
Voc (V)	51.44	51.62	51.78	51.97	52.15	52.33	52.50
Isc (A)	15.92	15.98	16.05	16.12	16.19	16.25	16.32
Tolerance (%)	Pmax: ±3% Binning: ±5W Voc: ±5% Isc: ±5%						

 BNPI: Front Irradiance 1000W/m², Rear Irradiance 135W/m², module temperature 25°C, AM=1.5
 Bifaciality: Pmax 80%±10%, φVoc 98%±2%, φIsc 80%±10%

Mechanical Characteristics

Number of Cells	144pcs
Size of Cell (mm)	182*91 & 182.2*91.875
Type of Cell	N-type Mono
Front Glass/Back Glass (mm)	2.0/2.0
Type of Frame	Anodized aluminum alloy
Junction Box	IP68
Size of Module (mm)	2278*1134*30
Weight (kg)	31.7
Cables/Connectors	4mm², MC4 compatible
Length of Cable	+300mm/-300mm (connector included)

Remark: customized frame color and cable length available upon request

Maximum Ratings

Operating Temperature(°C)	-40~85
Operating Humidity(%RH)	5~85
Allowable Hail Load	25mm ice-ball with velocity of 23m/s

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 CAUTION: All rights and explain reserved by EGING PV.
 Specifications included in this datasheet are subject to change without notice.
 The specific content of the product warranty refers to EGING's latest warranty.

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