

STAR Pro SERIES N-TOPCon 108-cell MODULE BIFACIAL

EG-435NT54-HL/BF-DG **435W** EG-440NT54-HL/BF-DG **440W** EG-445NT54-HL/BF-DG **445W**

KEY FEATURES



SMBB cell design
Super multi Busbar cells brings 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 & 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

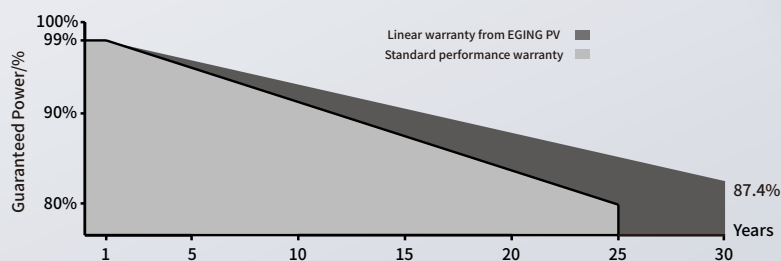
LINEAR PERFORMANCE WARRANTY



**15 year Product Warranty
25 Year Product Warranty**
(For rooftop installation only)



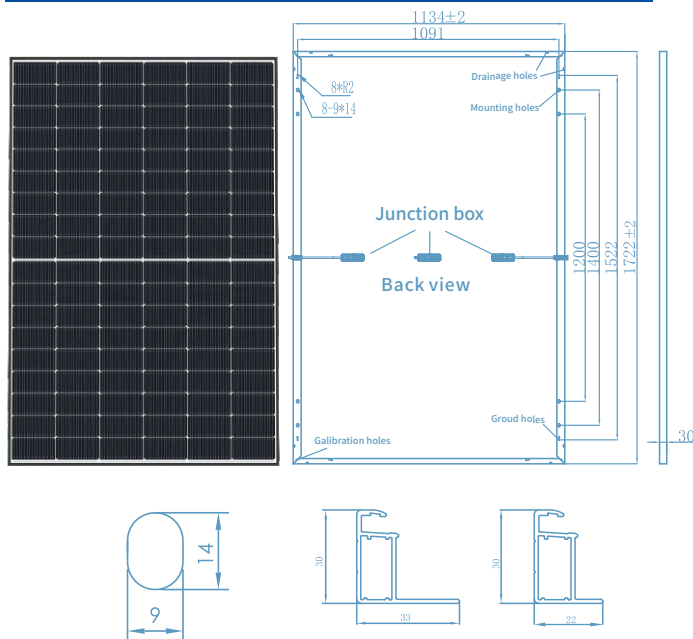
30 Year Linear Power Warranty



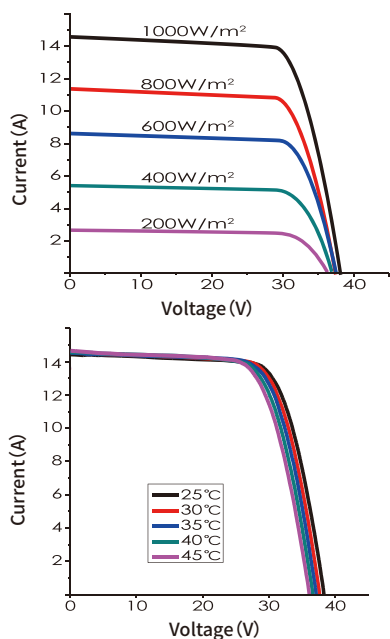
As a BloombergNEF Tier 1 and global leading manufacturer since 1998, EGING PV is committed to supplying reliable and durable PV products to customers to create together a greener planet.



Engineering Drawings



I-V Curves



Packing Configuration

Pieces per pallet	36
Size of packing (mm)	1750*1135*1255
Weight of packing (kg)	916
Pieces per container	936
Size of container	40' HC

Electrical Characteristics(STC)

Power level	435	440	445
Pmax (W)	435	440	445
Vmp (V)	32.01	32.19	32.37
Imp (A)	13.59	13.67	13.75
Voc (V)	38.57	38.75	38.93
Isc (A)	14.40	14.48	14.57
Module efficiency (%)	22.3	22.5	22.8
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		
Tolerance	Pmax:±3% Binning:0~+5W Voc:±5% Isc:±5%		

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

Bifacial Output-Backside Power Gain

10%	Pmax(W)	479	484	490
	Module efficiency (%)	24.5	24.8	25.1
20%	Pmax(W)	522	528	534
	Module efficiency (%)	26.7	27.0	27.6

Working Characteristics (NOCT)

Power level	435	440	445
Pmax (W)	327	331	335
Vmp (V)	29.65	29.82	30.02
Imp (A)	11.03	11.10	11.16
Voc (V)	36.55	36.73	36.93
Isc (A)	11.69	11.76	11.82
Tolerance	Pmax:±3% Binning:0~+5W Voc:±5% Isc:±5%		
NOCT (°C)	44±2		

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

Working Characteristics (BNPI)

Pmax (W)	481	487	493
Voc (V)	38.58	38.76	38.95
Isc (A)	15.95	16.04	16.14
Tolerance	Pmax:±3% Binning:0~+5W Voc:±5% Isc:±5%		

BNPI::Front Irradiance1000W/m²,Rear Irradiance 135W/m², module temperature25°C,AM=1.5

Bifaciality:Pmax80%±10%,φIsc80%±10%,φVoc98%±2%

Mechanical Characteristics

Number of cells	108pcs	
Size of cell (mm)	182*91	
Type of cell	N-type Mono	
Thickness of glass (mm)	1.6	
Type of frame	Anodized aluminum alloy	
Junction box	IP68	
Size of module (mm)	1722*1134*30	
Weight (kg)	20.2	
Connectors	E1-X-abcd	Changzhou Eging Photovoltaic Tech. Co., Ltd.
-manufacture	Z4S-abcd	Zerun Co. Ltd.
	C2xyz	Jiangsu Holsun Electronics Technology Co., Ltd.
	PV-HT03x	Jiangsu Haitian Microelectronics Corp.
	PV-KST4-EVO2/xy_UR	Staubli Electrical Connectors AG
	PV-KBT4-EVO2/xy_UR	
Length of Cable	+300mm/-300mm	
Fire rating	Class c	
Country of manufacture	China	

Maximum Ratings

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

Revised in November 2024 1st Edition

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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