KEENSTAR EGING PV

STAR Pro SERIES

N-TOPCon
108-cell MODULE BIFACIAL

EG-445NT54-HL/BF-DG

425~445W

±3%POSITIVE TOLERANCE

KEY FEATURES

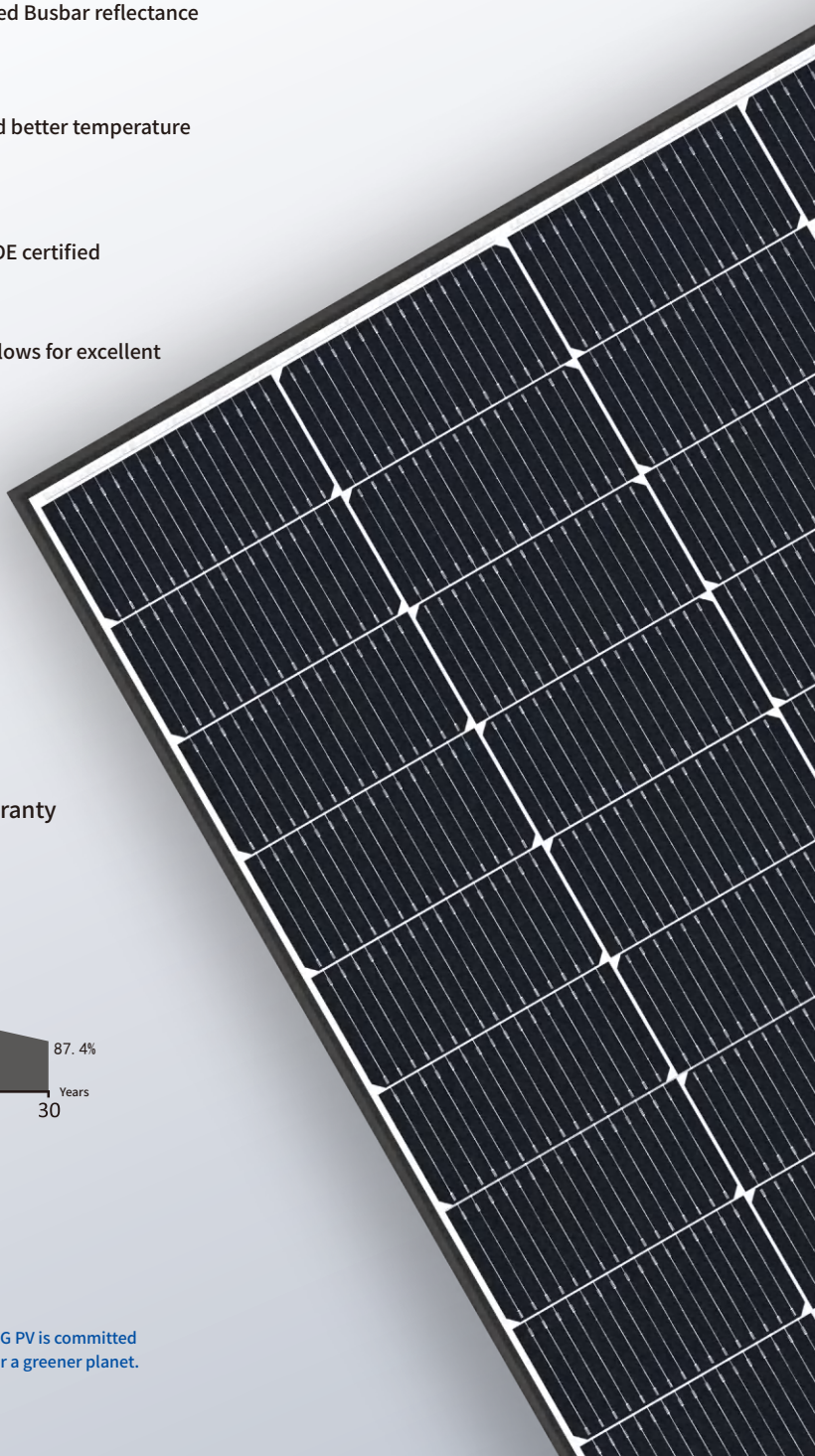
SMBB cell design
Super multi Busbar cells brings lower resisitance and increased Busbar reflectance ensures higher power output

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

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

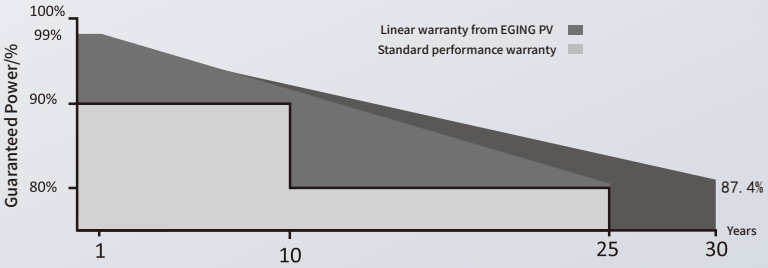
Excellent Low-light Performance
Advanced solar cell and glass surface texturing technology allows for excellent performance in low-light environments

PID Resistant
Excellent PID resistance performance optimized by unique structural design



LINEAR PERFORMANCE WARRANTY

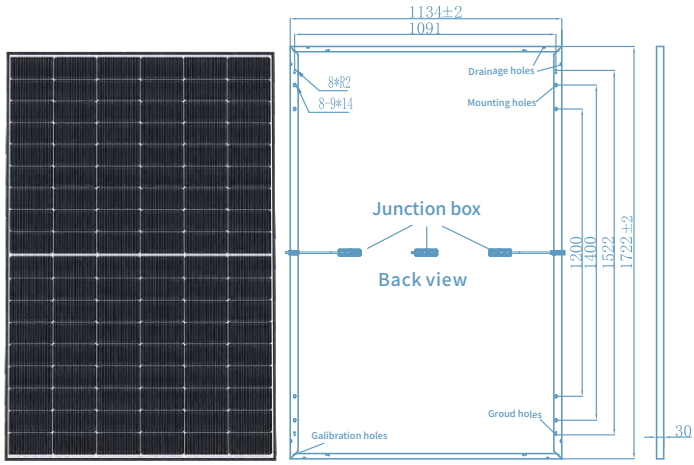
25 Year Product Warranty 30 Year Linear Power Warranty

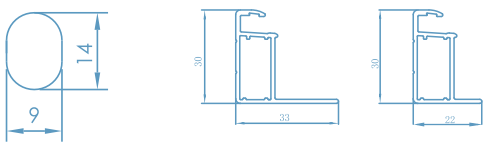


As a BloombergNEF Tier 1 and global leading manufacturer since 1998,EGING PV is committed to supplying reliable and durable PV products to customers to creat together a greener planet.

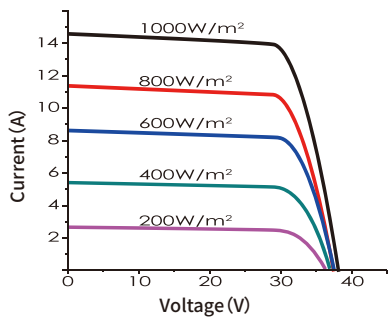
EG-445NT54-HL/BF-DG

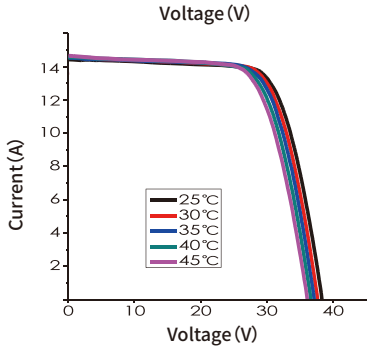
Engineering Drawings





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

Revised in September 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.

Electrical Characteristics

Power level	425	430	435	440	445
Pmax (W)	425	430	435	440	445
Vmp (V)	31.65	31.83	32.01	32.19	32.37
Imp (A)	13.43	13.51	13.59	13.67	13.75
Voc (V)	38.21	38.39	38.57	38.75	38.93
Isc (A)	14.24	14.32	14.40	14.48	14.57
Module efficiency (%)	21.8	22.0	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		

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

Bifacial Output-Backside Power Gain

10%	Pmax(W)	468	473	479	484	490
	Module efficiency (%)	24.0	24.2	24.5	24.8	25.1
20%	Pmax(W)	510	516	522	528	534
	Module efficiency (%)	26.1	26.4	26.7	27.0	27.6

Working Characteristics (STC)

Power level	425	430	435	440	445
Pmax (W)	320	323	327	331	335
Vmp (V)	29.36	29.45	29.65	29.82	30.02
Imp (A)	10.90	10.97	11.03	11.10	11.16
Voc (V)	36.22	36.39	36.55	36.73	36.93
Isc (A)	11.56	11.62	11.69	11.76	11.82
Tolerance (%)	Pmax:±3% Binning:±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)	470	476	481	487	493
Voc (V)	38.23	38.40	38.58	38.76	38.95
Isc (A)	15.77	15.86	15.95	16.04	16.14
Tolerance (%)	Pmax:±3% Binning:±5W Voc:±5% Isc:±5%				

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

Mechanical Characteristics

Number of cells	108pcs	
Size of cell (mm)	182*91	
Type of cell	N-type Mono	
Thickness of glass (mm)	2.0	
Type of frame	Anodized aluminum alloy	
Junction box	IP68	
Size of module (mm)	1722*1134*30	
Weight (kg)	24.2	
Connectors -manufacture	E1-X-abcd	Changzhou Eging Photovoltaic Tech. Co., Ltd.
	Z4S-abcde	Zerun Co. Ltd.
	C2xyz	Jiangsu Holysun Electronics Technology Co., Ltd.
	PV-HT03x	Jiangsu Haitian Microelectronics Corp.
	PV-KST4EVO2/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

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