KEENSTAR EGING PV

STAR Pro SERIES

N-TOPCon
108-cell MODULE BIFACIAL

EG-NT54-HL/BF-DG

425~445W

0~3%POSITIVE TOLERANCE

KEY FEATURES

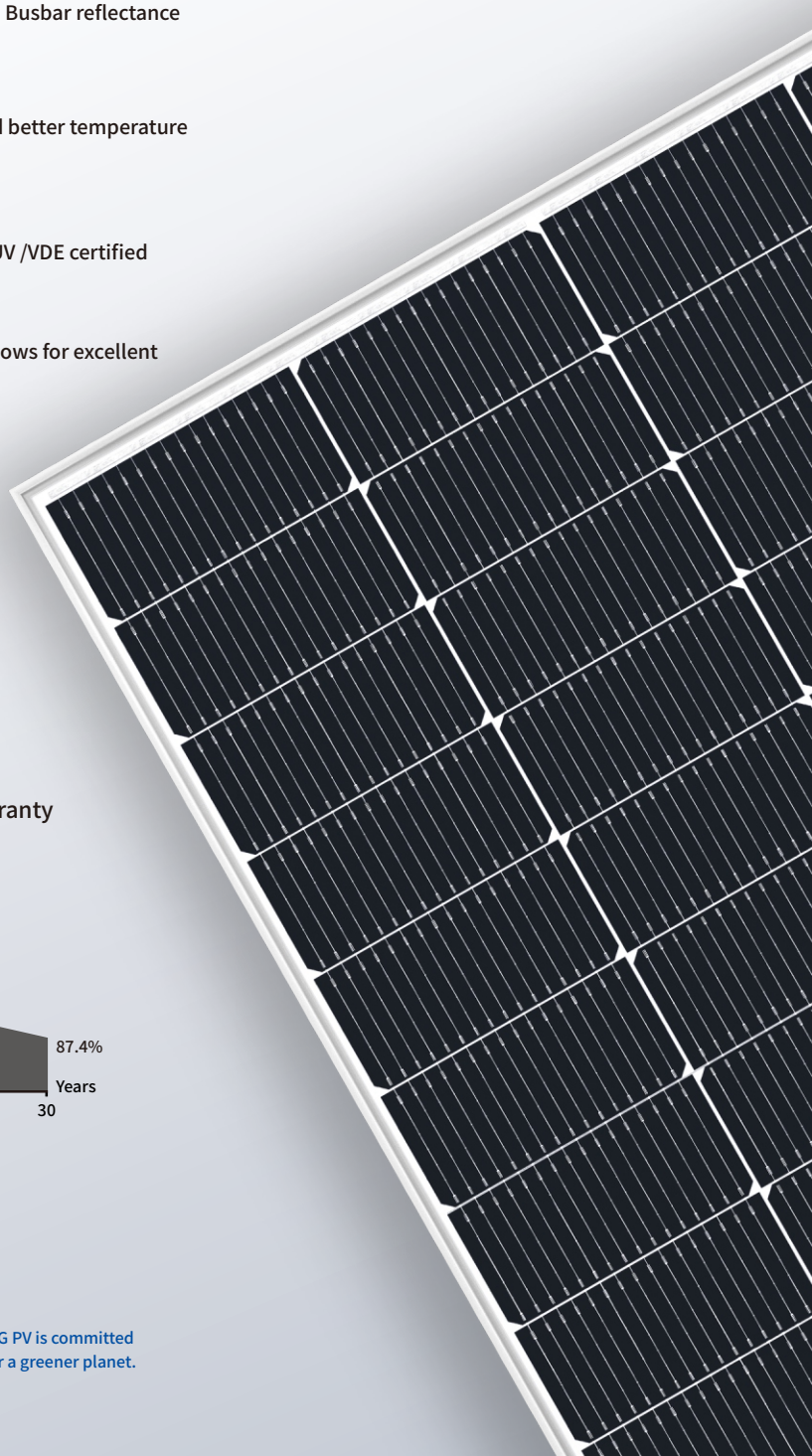
SMBB cell design
Super multi Busbar cells bring lower resistance and increased Busbar reflectance ensures higher power output

Low degradation
Adopt N-Type TOPCon cell technology, lower degradation and better temperature co-effeciency, 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

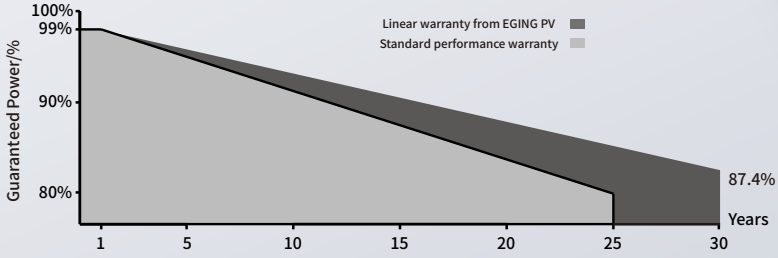
PID Resistant
Excellent PID resistance performance optimized by unique structural design



LINEAR PERFORMANCE WARRANTY

15 Year Product Warranty

30 Year Linear Power Warranty



Tier 1 BloombergNEF

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.

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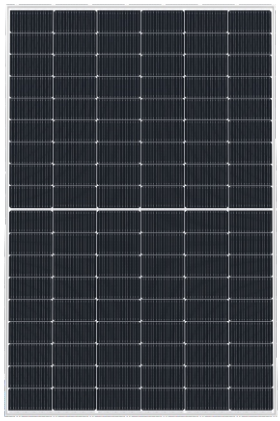
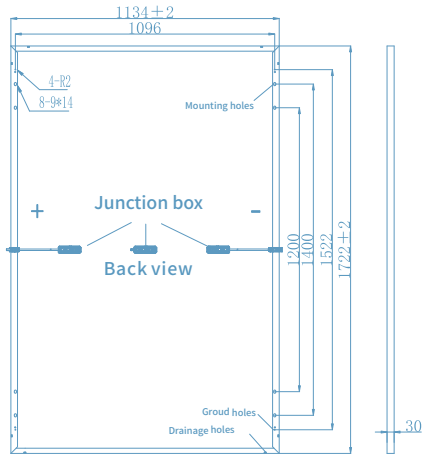
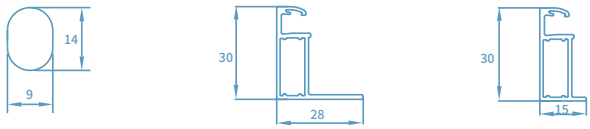
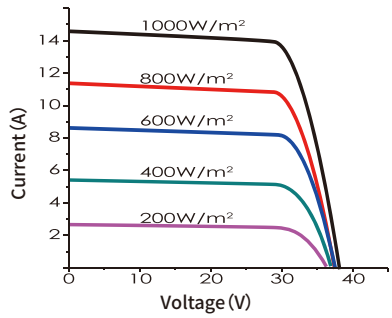
Engineering Drawings

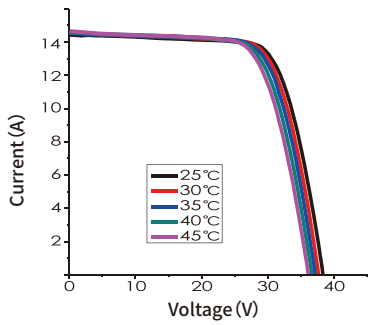






I-V Curves





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		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	537
	Module efficiency (%)	26.1	26.4	26.7	27.0	27.4

Working Characteristics(NOCT)

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
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)	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%				
BNPI:Front Irradiance1000W/m², Rear Irradiance 135W/m², module temperature25°C, AM=1.5					
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
Cables/connectors	4mm², MC4 compatible
Length of Cable	Portrait:+300mm/-300mm

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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