KEENSTAR EGING PV

STAR Pro SERIES N-TOPCon 108-cell MODULE

EG-445NT54-HLV

425~445W

0~3%POSITIVE TOLERANCE

KEY FEATURES

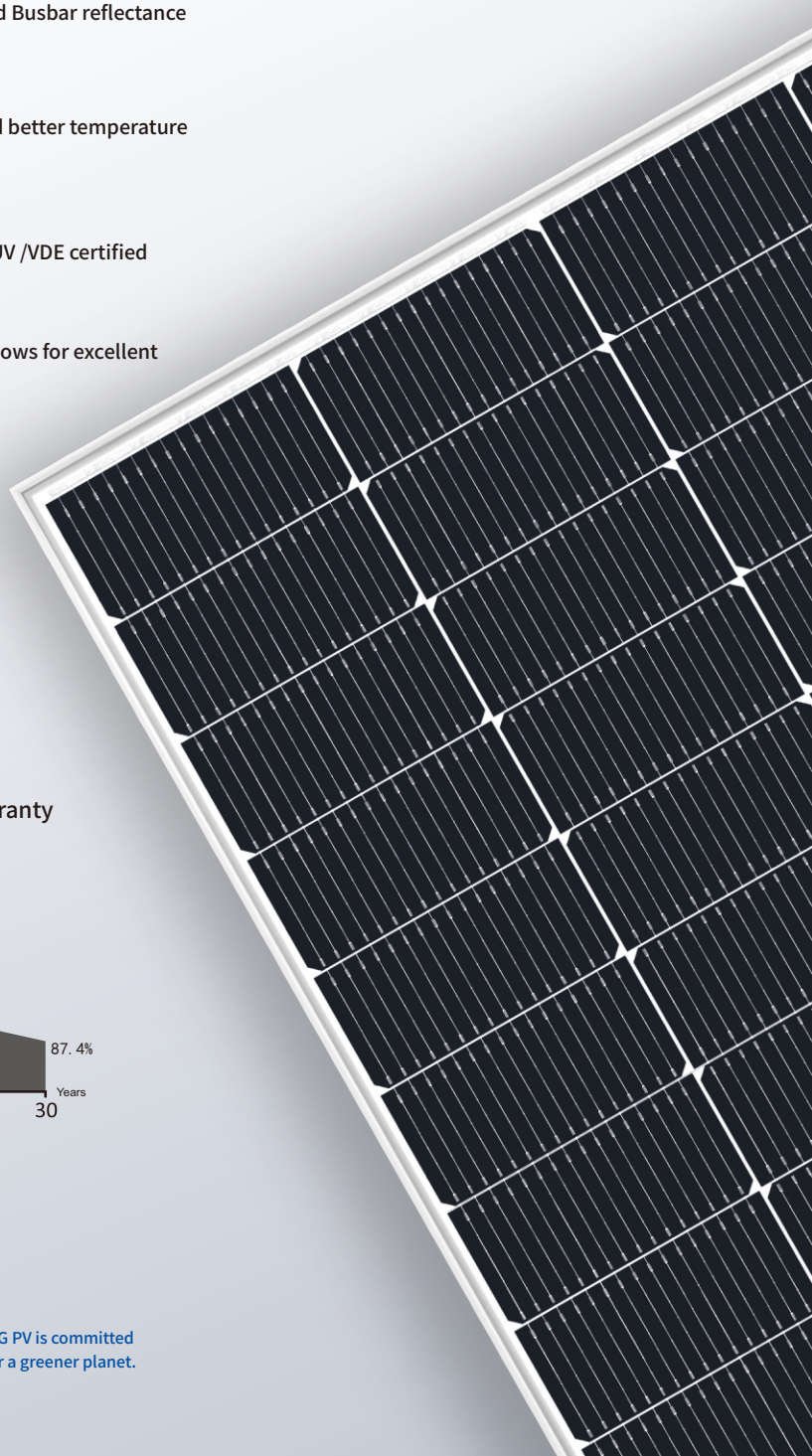
SMBB cell design
Super multi Busbar cells bring lower resisitance and increased Busbar reflectance ensures higher power output

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 & TUV /VDE certified

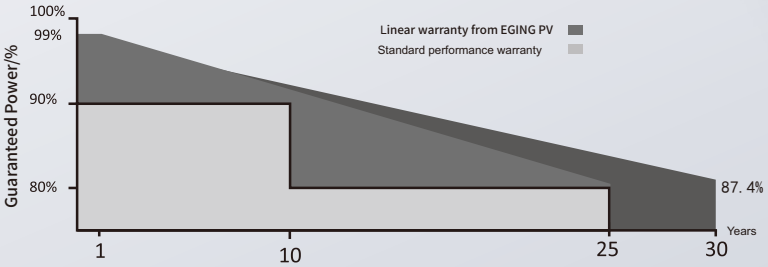
Excellent Low-light Performance
Advanced solar cell and glass surface texturing technology allows for excellent performance in low-light environments

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 creat together a greener planet.

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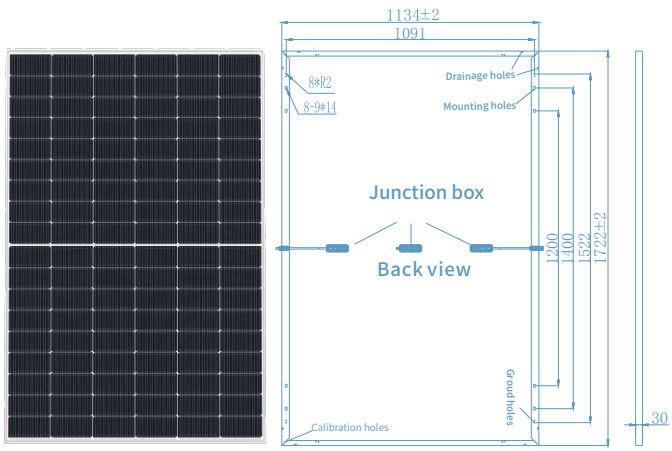
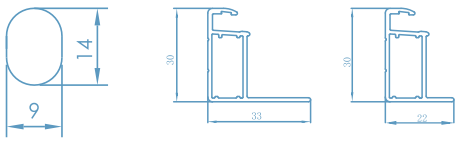
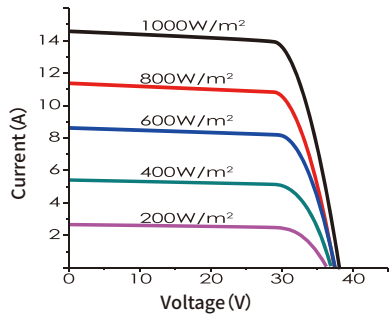
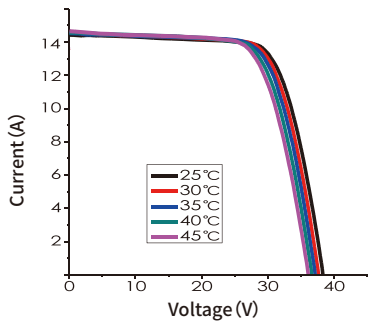
Engineering Drawings





I-V Curves





Electrical Characteristics

Power level	425	430	435	440	445
Pmax (W)	425	430	435	440	445
Vmp (V)	31.70	31.88	32.06	32.24	32.42
Imp (A)	13.41	13.49	13.57	13.65	13.73
Voc (V)	38.26	38.44	38.62	38.80	38.98
Isc (A)	14.16	14.24	14.32	14.40	14.48
Module efficiency (%)	21.8	22.0	22.3	22.5	22.8
Maximum system voltage (V)			1500		
Fuse Rating (A)			25		
Temperature coefficient			-0.29		
Temperature coefficient			0.046		
Temperature coefficient			-0.24		

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

Working Characteristics

Power level	425	430	435	440	445
Pmax (W)	320	323	327	331	336
Vmp (V)	29.55	29.61	29.73	29.88	30.09
Imp (A)	10.83	10.91	11.00	11.08	11.17
Voc (V)	36.35	36.53	36.75	36.86	36.97
Isc (A)	11.43	11.50	11.6	11.70	11.77
Power tolerance (%)			0~+3		
NOCT (°C)			44±2		

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

Mechanical Characteristics

Number of cells	108pcs
Size of cell (mm)	182*91
Type of cell	N-type Mono
Thickness of glass (mm)	3.2
Type of frame	Anodized aluminum alloy
Junction box	IP68
Size of module (mm)	1722*1134*30
Weight (kg)	20.2
Cables/connectors	4mm², MC4 compatible
Length of Cabel	Portrait:+300mm/-300mm

Packing Configuration

Pieces per pallet	36
Size of packing (mm)	1750*1135*1255
Weight of packing (kg)	772
Pieces per container	936
Size of container	40' HC

Maximum Ratings

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

Revised in August 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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