KEENSTAR EGING PV

STAR Pro+ SERIES

N-TOPCon
108-cell MODULE

EG-445NT54-HRbV	445W	EG-450NT54-HRbV	450W
EG-455NT54-HRbV	455W	EG-460NT54-HRbV	460W

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-effeciency, greatly increased on generation performance

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

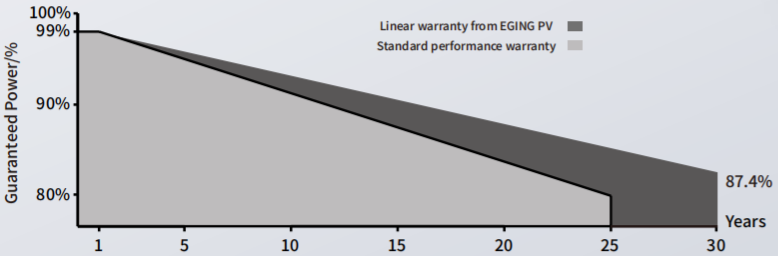
PID Resistant
Excellent PID resistance performance optimized by unique structural design

Lower LCOE
Super lower LCOE

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 creat together a greener planet.

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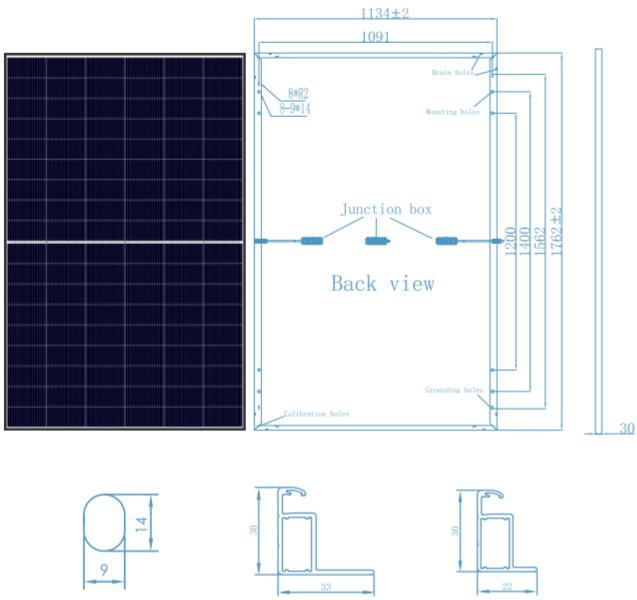
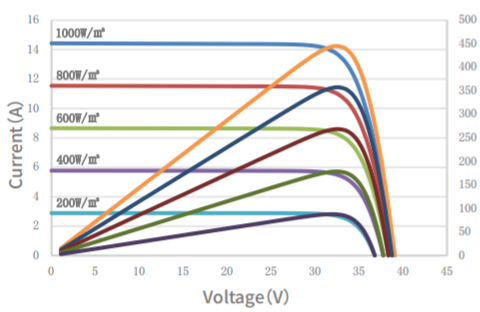
EG-445NT54-HRbV EG-450NT54-HRbV

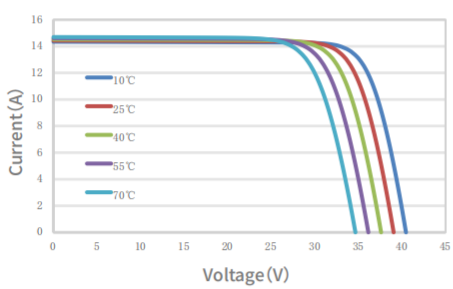
EG-455NT54-HRbV EG-460NT54-HRbV

Engineering Drawings



I-V Curves





Packing Configuration

Pieces per pallet	36
Size of packing (mm)	1790*1135*1255mm
Weight of packing (kg)	821
Pieces per container	936
Size of container	40'HC

Electrical Characteristics(STC)

Power level	445	450	455	460
Pmax (W)	445	450	455	460
Vmp (V)	32.61	32.78	32.95	33.12
Imp (A)	13.65	13.73	13.81	13.89
Voc (V)	39.04	39.24	39.44	39.64
Isc (A)	14.43	14.51	14.59	14.67
Module efficiency (%)	22.3	22.5	22.8	23.0
Maximum system voltage (V)		1500		
Fuse Rating (A)		25		
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

Working Characteristics(NOCT)

Power level	445	450	455	460
Pmax (W)	337	341	345	348
Vmp (V)	30.50	30.70	30.90	31.00
Imp (A)	11.04	11.10	11.16	11.22
Voc (V)	36.90	37.10	37.30	37.40
Isc (A)	11.63	11.70	11.76	11.83
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

Mechanical Characteristics

Number of cells	108pcs	
Size of cell (mm)	182.2*94	
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)	1762*1134*30	
Weight (kg)	21.7	
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-KST4-EVO2/xy_UR PV-KBT4-EVO2/xy_UR	Staubli Electrical Connectors AG
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 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.

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