

STAR Pro SERIES N-TOPCon 144-cell MODULE

EG-590NT72-HLV

590W

EG-595NT72-HLV

595W

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

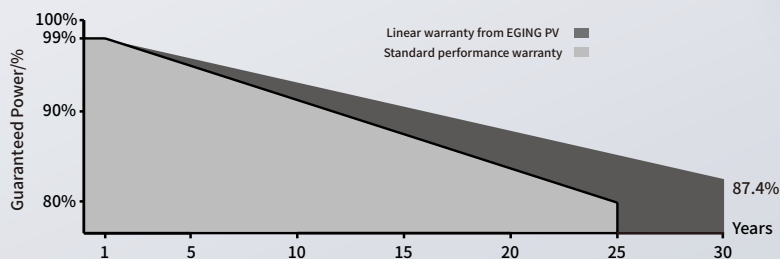
LINEAR PERFORMANCE WARRANTY



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



30 Year Linear Power Warranty

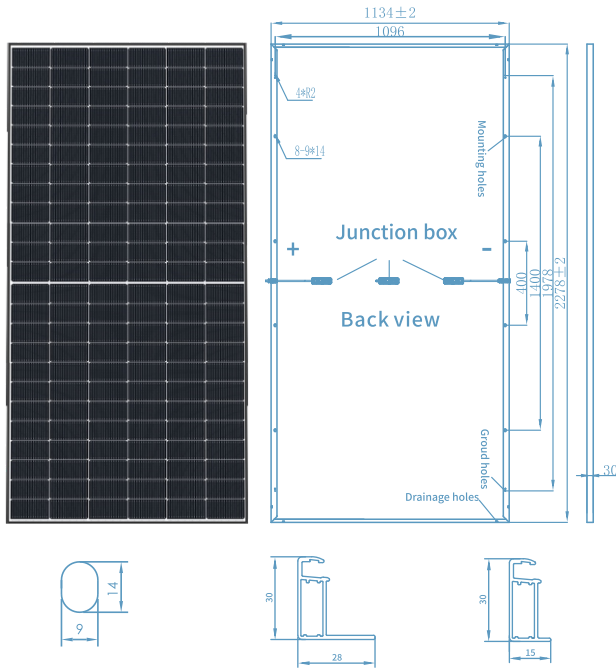


As a BloombergNEF Tier 1 and global leading manufacturer since 1998, EGING PV is committed to supplying reliable and durable PV products to customers to create together a greener planet.

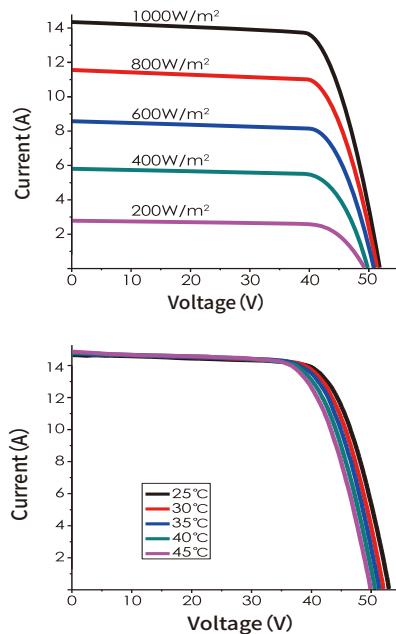
EG-590NT72-HLV

EG-595NT72-HLV

Engineering Drawings



I-V Curves



Packing Configuration

Pieces per pallet	36
Size of packing (mm)	2320*1135*1255
Weight of packing (kg)	1022
Pieces per container	720
Size of container	40' HC

Electrical Characteristics(STC)

Power level	590	595
Pmax (W)	590	595
Vmp (V)	42.88	43.06
Imp (A)	13.76	13.82
Voc (V)	51.62	51.80
Isc (A)	14.55	14.61
Module efficiency (%)	22.8	22.9
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	590	595
Pmax (W)	445	449
Vmp (V)	40.06	40.23
Imp (A)	11.11	11.16
Voc (V)	48.70	48.85
Isc (A)	11.75	11.81
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	144pcs	
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)	2278*1134*30	
Weight (kg)	27	
Connectors -manufacture	E1-X-abcd Z4S-abcde C2xyz PV-HT03x PV-KST4-EVO2/xy_UR PV-KBT4-EVO2/xy_UR	Changzhou Eging Photovoltaic Tech. Co., Ltd. Zerun Co. Ltd. Jiangsu Holsun Electronics Technology Co., Ltd. Jiangsu Haitian Microelectronics Corp. 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 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.



Add: Changzhou Eging
Photovoltaic Technology Co., Ltd.
No.18, Jinwu Road
Yaotang Town
213212 JINTAN CITY
Jiangsu
CHINA
Tel: 86-519-82585880
Email: marketing@egingpv.com
Web: www.egingpv.com