KEENSTAR EGING PV

STAR SERIES

MONO PERC
144-cell MODULE BIFACIAL

EG-540M72-HL/BF-DG **540W** EG-545M72-HL/BF-DG **545W** EG-550M72-HL/BF-DG **550W**

EG-555M72-HL/BF-DG **555W** EG-560M72-HL/BF-DG **560W**

KEY FEATURES

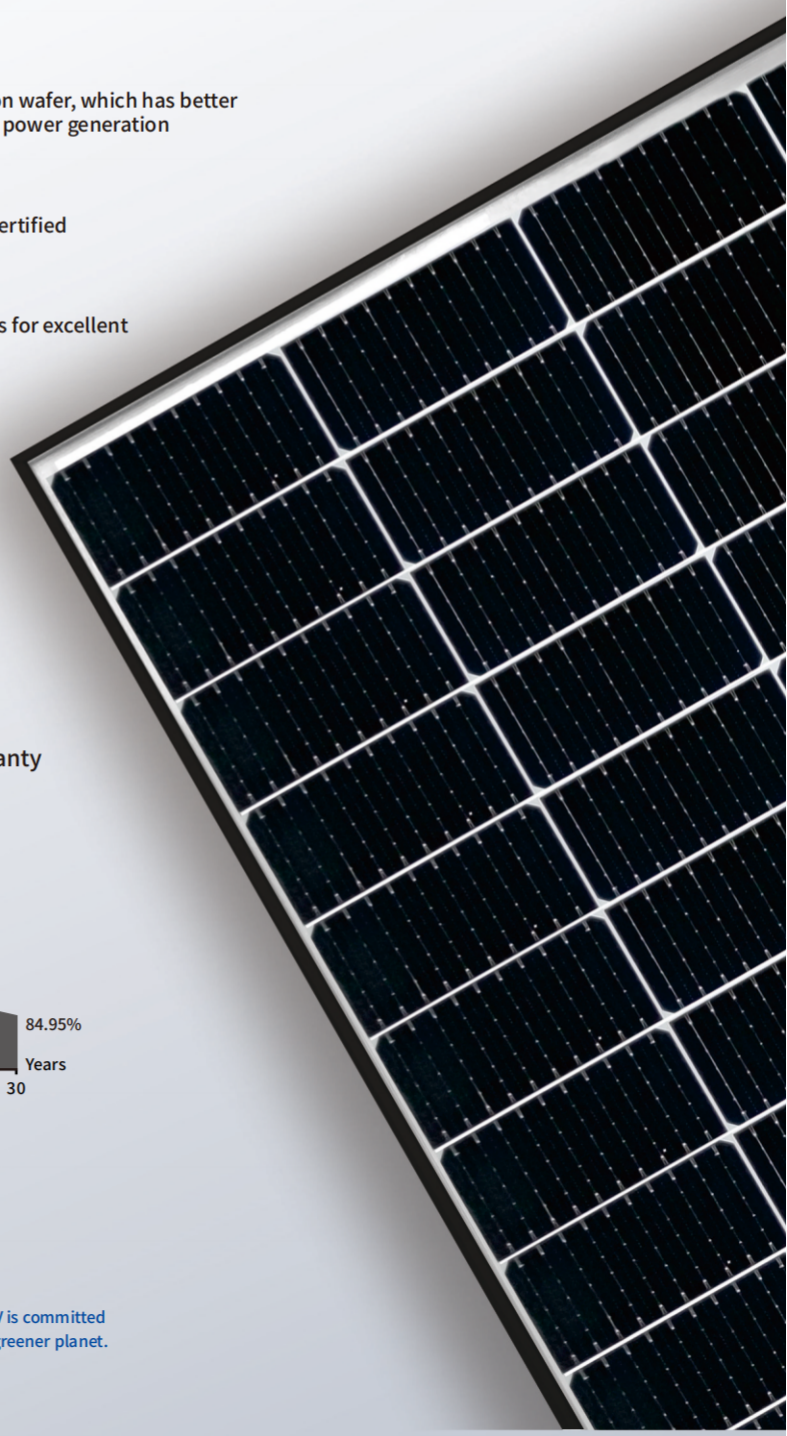
Mbb cell design
Multi Busbar cells brings lower resistance and increased Busbar reflectance ensures higher power output

Low degradation
All single crystal cells are produced by using gallium-doped silicon wafer, which has better anti-degradation ability and ensures durable and stable efficient power generation

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

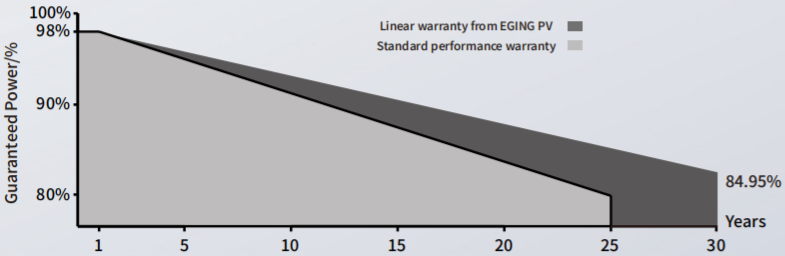
PID Resistant
Excellent PID resistance performance optimized by unique structural design



LINEAR PERFORMANCE WARRANTY

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

30 Year Linear Power Warranty



CE VDE PV CYCLE

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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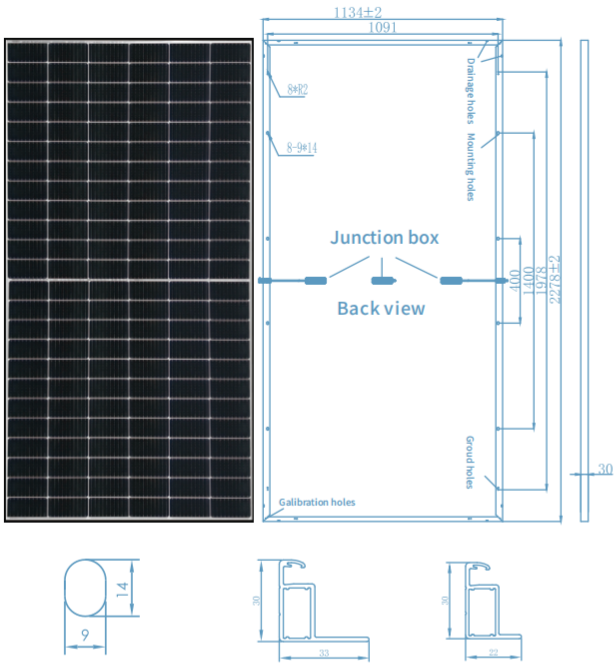
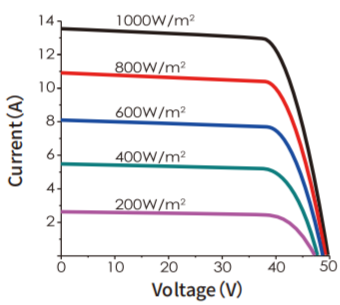
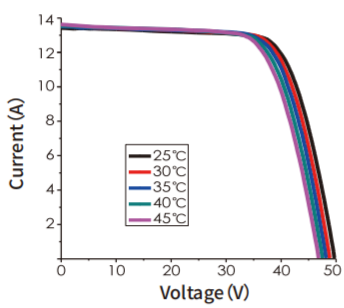
Engineering Drawings



I-V Curves





Packing Configuration

Pieces per pallet	36
Size of packing (mm)	2320*1135*1255
Weight of packing (kg)	1186
Pieces per container	720
Size of container	40' HC

Electrical Characteristics(STC)

Power level	540	545	550	555	560
Pmax (W)	540	545	550	555	560
Vmp (V)	42.09	42.32	42.54	42.76	42.98
Imp (A)	12.83	12.88	12.93	12.98	13.03
Voc (V)	49.91	50.12	50.34	50.55	50.72
Isc (A)	13.58	13.63	13.68	13.73	13.78
Module efficiency (%)	20.90	21.09	21.29	21.48	21.68
Maximum system voltage (V)	1500				
Fuse Rating (A)	30				
Temperature coefficient Pmax (%/°C)	-0.350				
Temperature coefficient Isc (%/°C)	0.05				
Temperature coefficient Voc (%/°C)	-0.275				
Tolerance	Pmax:±3% Binning:0-+5W Voc:±5% Isc:±5%				

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

Bifacial Output-Backside Power Gain

10%	Pmax(W)	594	600	605	611	616
	Module efficiency (%)	22.99	23.18	23.42	23.65	23.85
20%	Pmax(W)	648	654	660	666	672
	Module efficiency (%)	25.08	25.31	25.54	25.78	26.01

Working Characteristics (NOCT)

Power level	540	545	550	555	560
Pmax (W)	409	412	416	420	424
Vmp (V)	38.96	39.13	39.32	39.55	39.78
Imp (A)	10.50	10.53	10.58	10.62	10.66
Voc (V)	46.42	46.61	46.82	47.01	47.24
Isc (A)	11.11	11.16	11.20	11.24	11.30
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

Working Characteristics (BNPI)

Pmax (W)	591	597	602	607	613
Voc (V)	49.92	50.15	50.36	50.57	50.73
Isc (A)	14.86	14.92	14.97	15.03	15.08
Tolerance	Pmax:±3% Binning:0-+5W Voc:±5% Isc:±5%				

BNPI::Front Irradiance1000W/m²,Rear Irradiance 135W/m², moduletemperature25°C, AM=1.5

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

Mechanical Characteristics

Number of cells	144pcs	
Size of cell (mm)	182*91	
Type of cell	Mono	
Thickness of glass (mm)	2.0	
Type of frame	Anodized aluminum alloy	
Junction box	IP68	
Size of module (mm)	2278*1134*30	
Weight (kg)	31.7	
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	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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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.