

ES - 132 MONO 655 - 675 HALF CELL

132 Half Cell layout M 12/210mm Cell

670Wp / 38.22Vmp



Ideal Choice
for Large
Scale Ground
Installation



High Density
Interconnect
Technology



Gallium-doped
Technology



Anti-PID
Low LID
Performance



Less
Hot Spot
Shading Effects



Lower
BOS & LCOE

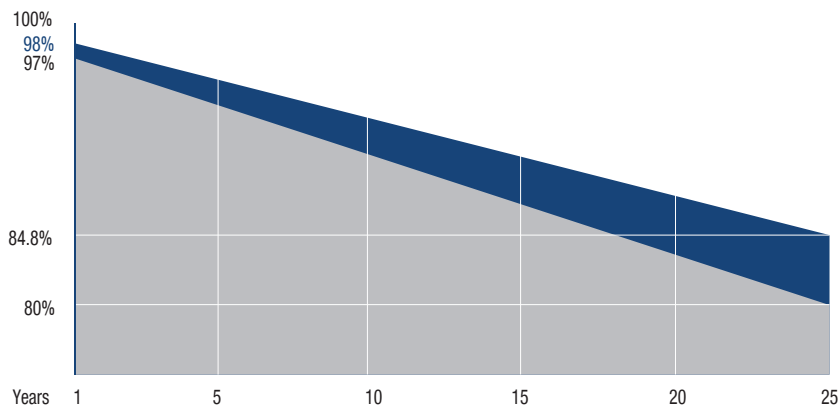


Comprehensive Certificates

- ISO9001:2015 QMS
- ISO14001:2015 EMS
- ISO45001:2018 OHSMS
- IEC61215/IEC61730 Standard Quality
- IEC61701/IEC62716 Salt / Mist / Ammonia Tests



Linear Performance Warranty



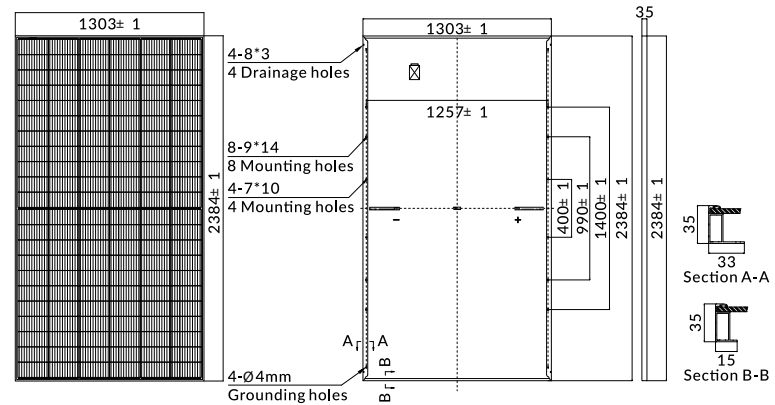
■ ES132 MONO Standard 84.8%
■ Industry Standard 80%

* Standard warranty 12 years, can be extended up to 15 years

ES - 132 MONO 655 - 675 HALF CELL

Mechanical Characteristics

Solar Cells	Mono
No. of Cells	132 (6X22)
Dimensions	2384 x 1303 x 35mm
Weight	34kg
Front Glass	3.2mm coated tempered glass
Frame	Anodized aluminium alloy
Junction Box	Ip68 rated (3 by pass diodes)
Output Cables	4.00mm ² 300mm (+) / 300mm (-) Lenght can be customized
Connectors	Mc4 compatible
Mechanical load Test	5400Pa



Electrical Parameters

Power Glass	ES-132 MON0655		ES-132 MON0660		ES-132 MON0665		ES-132 MON0670		ES-132 MON0675	
	STC	NMOT	STC	NMOT	STC	NMOT	STC	NMOT	STC	NMOT
Maximum Power (Pmax)	655W	498W	660W	502W	665W	506W	670W	510W	675W	514W
Open Circuit Voltage (Voc)	45.12V	41.38V	45.35V	41.56V	45.54V	41.74V	45.71V	41.92V	45.86V	41.10V
Short Circuit Current (Isc)	18.66A	15.54A	18.69A	15.58A	18.73A	15.62A	18.78A	15.66A	18.84A	15.70A
Voltage at Maximum power (Vmpp)	37.71V	34.25V	37.88V	34.43V	38.04V	34.61V	38.22V	34.79V	38.37V	34.97V
Current Maximum Power	17.37A	14.54A	17.42A	14.58A	17.48A	14.62A	17.53A	14.66A	17.59A	14.70A
Module Efficiency (%)	21.09%		21.25%		21.41%		21.57%		21.73%	

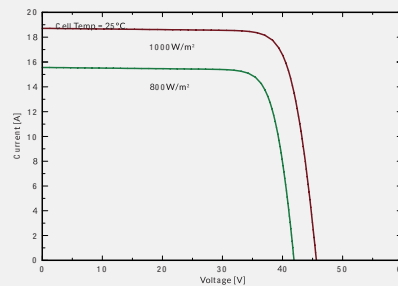
STC: Irradiance 1000W/m², cell temperature 25°C, AM1.5G

NMOT: Irradiance 800W/m², ambient temperature 20°C, wind speed 1m/s, AM1.5G

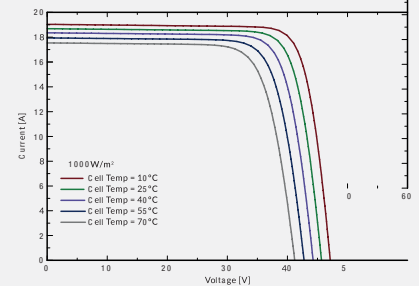
Packing Configuration

Container	40'HQ
Pieces per Pallet	32
Pallets per Container	18
Pices per Container	576

I-V CURVE



ES 132 MONO 670 / I-V



Operating Characteristics

Operating Module Temperature	-40°C to +85°C
Maximum System Voltage	1500 DC (IEC)
Maximum Series Fuse Rating	30A
Power Tolerance	0/+5W

Temperature Characteristics

Nominal Operating Temperature	43°±2°C
Temperature Coefficient of Pmax	-0.34%/°C
Temperature Coefficient of Voc	-0.25%/°C
Temperature Coefficient of Isc	+0.04%/°C