

## SOLAR PANEL

A fully certified, premium quality and high efficiency module made with A Grade materials manufactured in Turkey. Guaranteed positive tolerance of up to 5W.

**120**  
Cells  
Mono-Perc  
(MBB)



- QUALITY**
- ISO 9001 Certification
  - ISO 10002 Certification
  - IEC 61215
  - PIN-UP technology lamination
  - NDC (non-destructive cutting)
  - MICRO GAP
  - EL CONTROL IN 3 LOCATIONS

- COMPONENTS**
- Certified suppliers
  - Strict criteria for the selection of cells (Europe and Asia)
  - MC4-EVO2 Type connectors Or Compatible

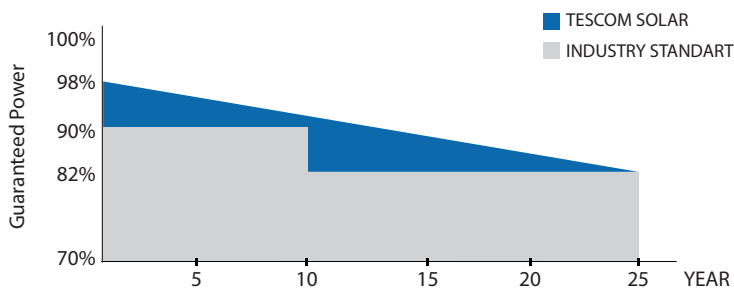
- TECH**
- IEC 61215 and 61730 parts II
  - Load resistance -5400 pa
  - Hail impact resistance class 4
  - Max voltage 1500V

- WARRANTY**
- Product: 12 years
  - 1 Year: Mono (98%)
  - 10 Years: 90% / 25 years up to: 82% (linear)

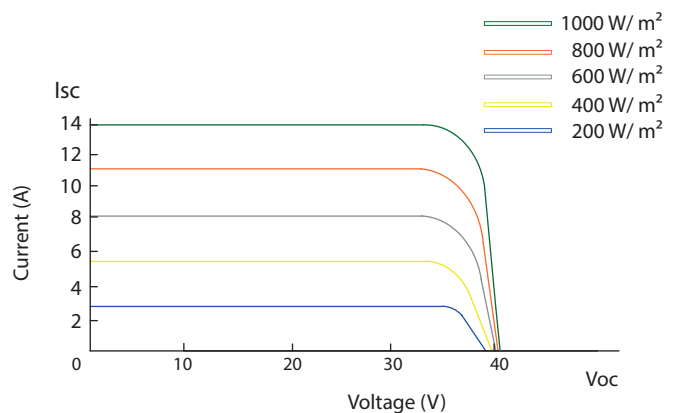
- ENVIRONMENT**
- Regulated carbon footprint
  - ISO 45001 AND ISO 14001 STD.

- PRODUCT**
- Class 440 - 460W -0/+4.99 WP
  - Mono cells
  - 120 Cells Perc Module
  - 11BB

### LINEAR PERFORMANCE WARRANTY



### I-V CURVE



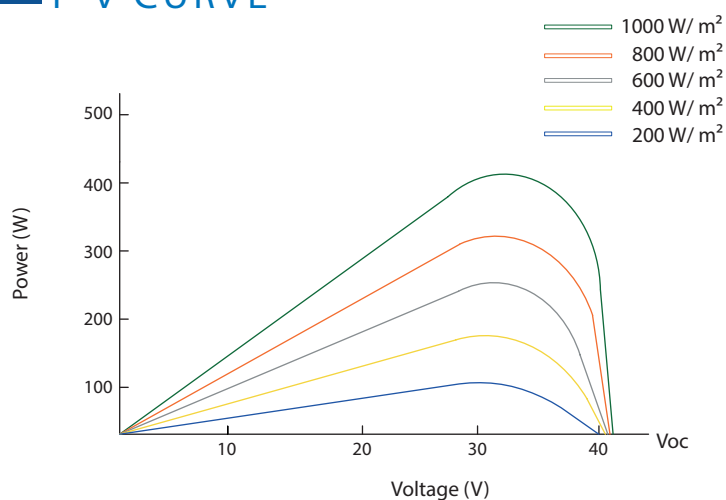
## ELECTRICAL CHARACTERISTICS

RATED POWER	Tescom440 120C/M	Tescom445 120C/M	Tescom450 120C/M	Tescom455 120C/M	Tescom460 120C/M
Power tolerance	0 ~+5W				
Maximum power voltage (Vmp)	33.72	33.82	33.91	34.06	34.20
Maximum power current (Imp)	13.05	13.16	13.27	13.36	13.45
Open circuit voltage (Voc)	41.02	41.10	41.18	41.33	41.48
Short circuit current (Isc)	13.73	13.79	13.85	13.93	14.01
Module efficiency (%)	20.39%	20.62%	20.85%	21.08%	21.32%
Maximum system voltage	DC1500V				
Maximum series fuse	25A				
Tested at Standart Test Conditions (STC): Irradiance 1000W/m <sup>2</sup> , AM 1.5, Cell Temperature 25°C					

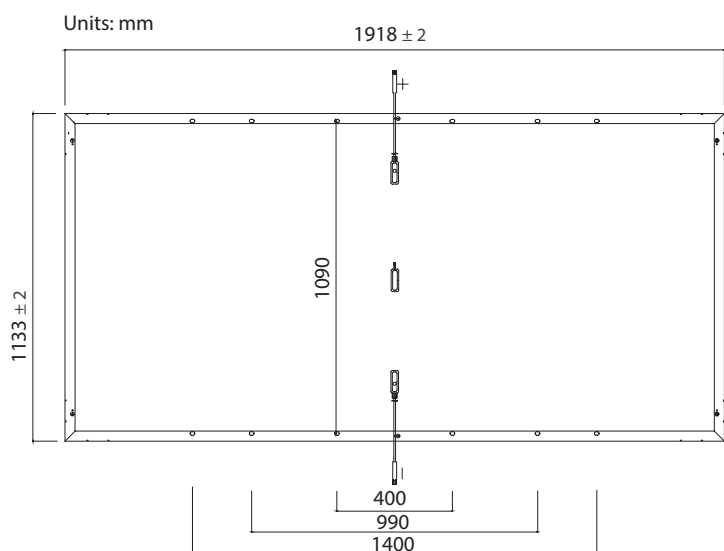
## MECHANICAL DATA

Dimension (mm)	1918x1133x35
Weight	23.5kg
Frame	Andonized aluminum
Glass	3.2mm ARC, Low iron, tempered glass
Junction box	IP68 / 3 diodes
Output cables	4mm <sup>2</sup> (IEC), Length: 350-1200mm (vertical)* Cable length may vary depending on the installation method

## P-V CURVE



## DIMENSIONS



## TEMPERATURE CHARACTERISTICS

Pmax temperature coefficient	-0.35% / °C
Voc temperature coefficient	-0.27% / °C
Isc temperature coefficient	+0.05% / °C
Operating temperature	-40 ~ + 80°C
Nominal operating cell temperature (NOCT)	45 ± 2°C

## PACKING CONFIGURATION

Container	40'HQ
Pieces per pallet	32
Pieces per container	744