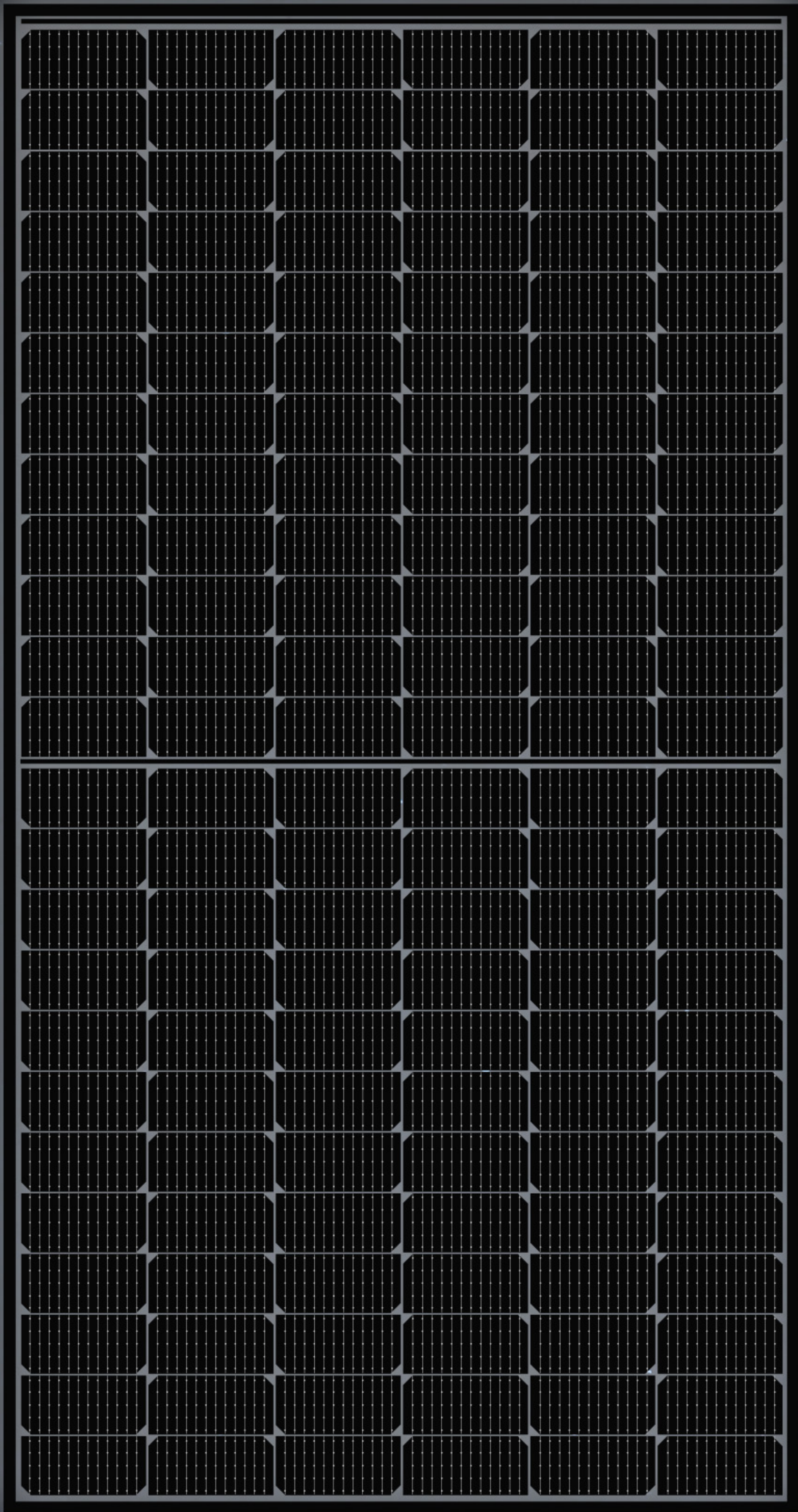


COSMOS

KS-144M-MBB HJT

KASEEL SOLAR
BIG ON QUALITY



144 Cells

HJT Monocrystalline



22,08%

Maximum Efficiency



0~+5%

Positive Power Tolerance



460 - 480

Peak Power Range

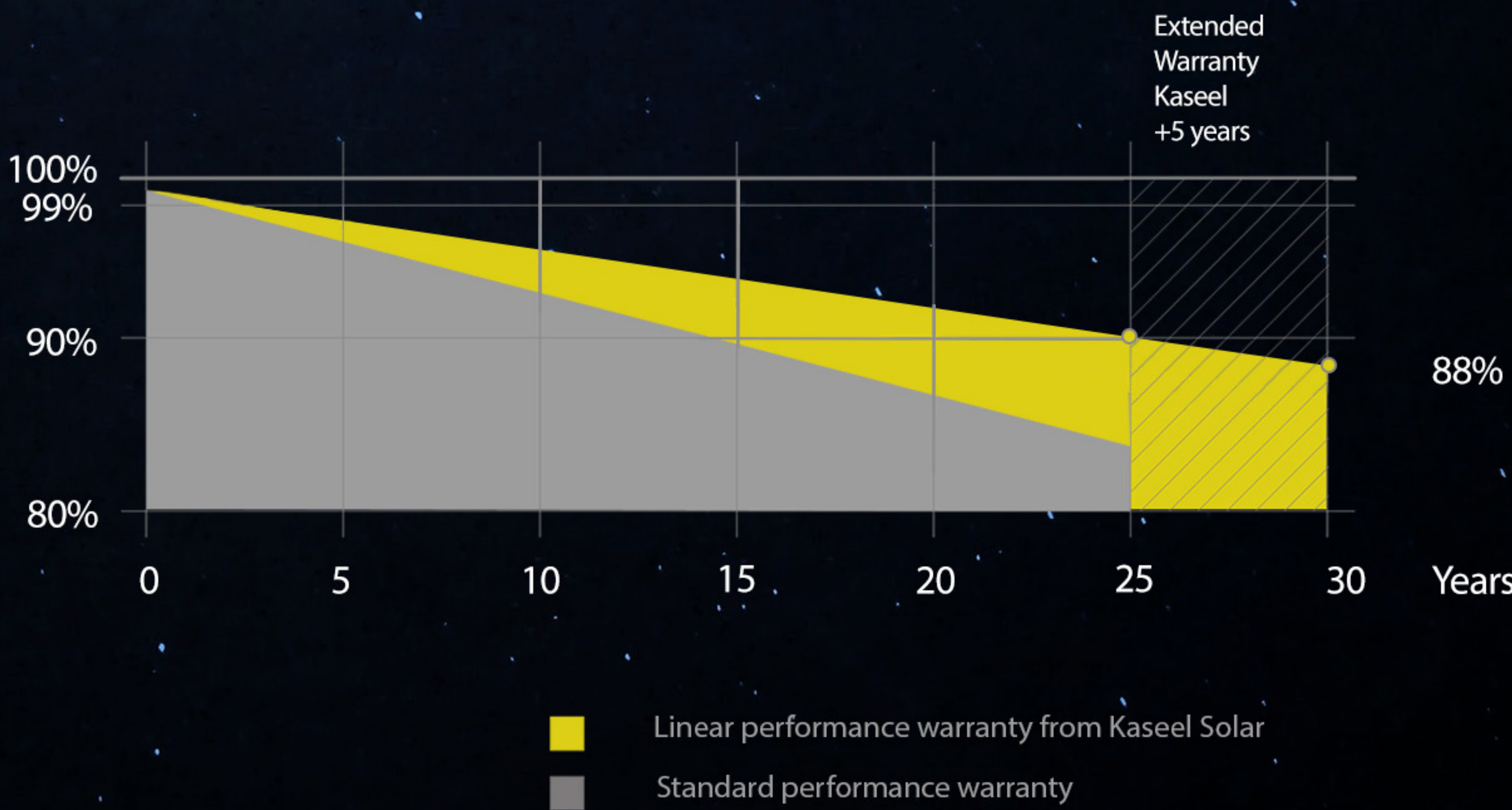
SPECIAL WARRANTY

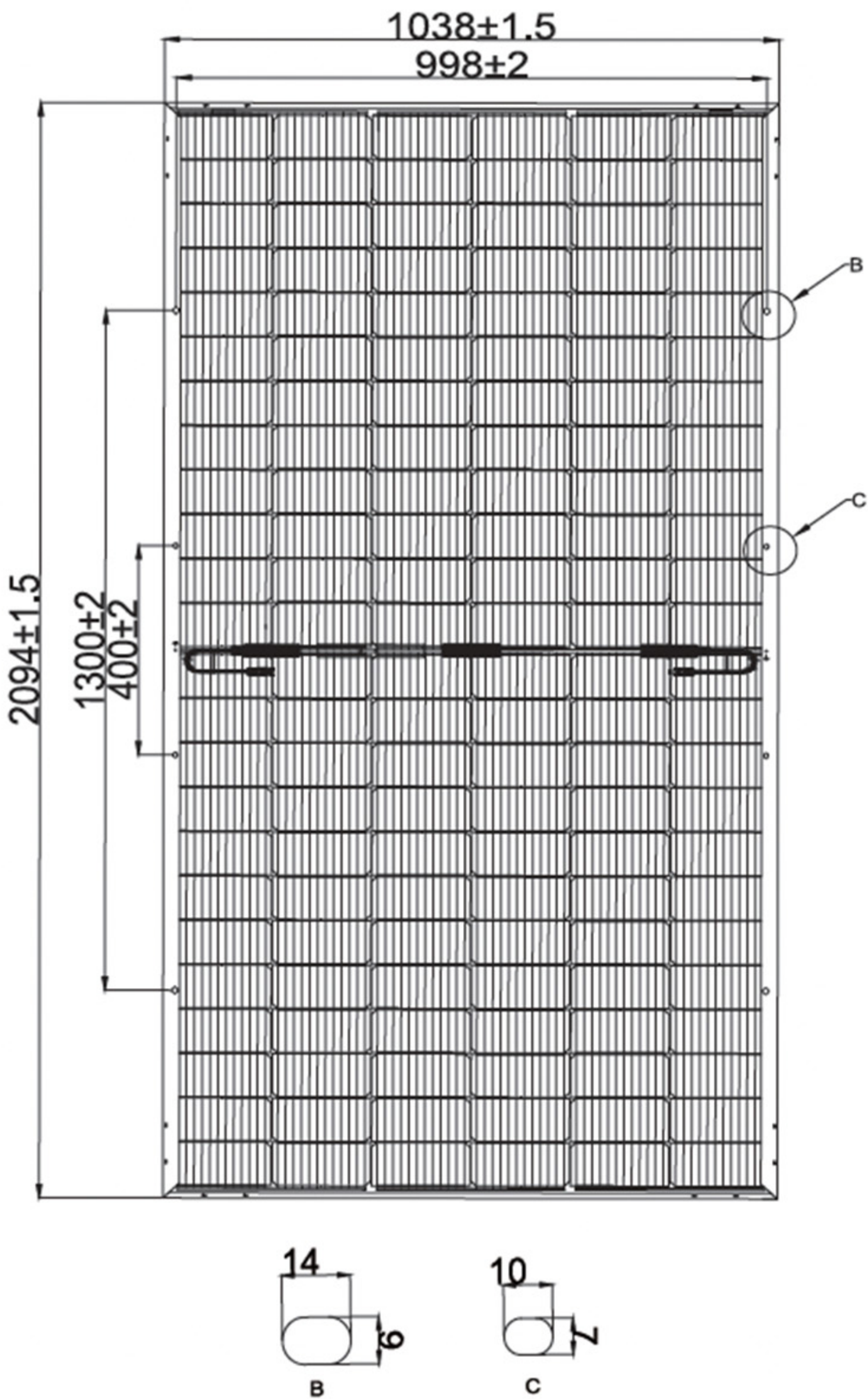


88% of nominal
power output



Limited Power
Warranty





Specifications in this datasheet are subject to change without prior notice.

ELECTRICAL CHARACTERISTICS AT STC

Nominal Power (Pmax)	455W	460W	465W	470W	475W	480W
Open Circuit Voltage (VOC)	53.09V	53.22V	53.35V	53.48V	53.61V	53.74V
Short Circuit Current (ISC)	10.52A	10.58A	10.64A	10.70A	10.76A	10.82A
Voltage at Nominal Power (Vmp)	45.02V	45.24V	45.44V	45.66V	45.86V	46.08V
Current at Nominal Power (Imp)	10.11A	10.18A	10.24A	10.30A	10.36A	10.43A
Module Efficiency (%)	20.93	21.16	21.39	21.62	21.85	22.08

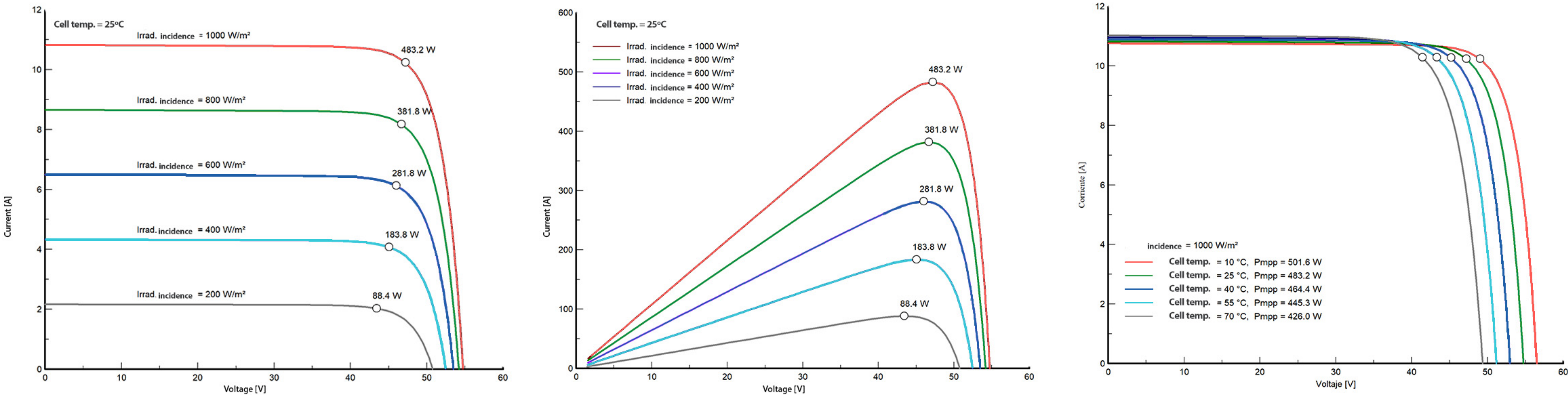
STC: Irradiance 1000W/m². Cell temperature 25°C. AM1.5

ELECTRICAL CHARACTERISTICS BSTC

Nominal Power (Pmax)	505W	510W	515W	520W	525W	530W
Open Circuit Voltage (VOC)	53.73V	54.33V	54.73V	55.33V	55.93V	56.53V
Short Circuit Current (ISC)	11.49A	11.53A	11.57A	11.61A	11.65A	11.69A
Voltage at Nominal Power (Vmp)	46.0V	46.2V	46.4V	46.6V	46.8V	47.0V
Current at Nominal Power (Imp)	11.09A	11.14A	11.19A	11.24A	11.29A	11.34A

BSTC: Front side irradiation 1000W/m². Back side reflection irradiation 135W/m², AM = 1.5, ambient temperatura 25°C
Bifaciality: 80%±5%

CURVES



Cell type	HJT MONO 166X83mm
Number of cells	144 (2x72)
Module dimensions	2094x1038x30 mm
Weight	27.5kg
Front cover	3.2mm Low iron tempered glass
Frame	Anodized aluminum alloy
Junction box	IP67 / IP68
Cable	4mm² - 1200mm
Connector	MC4 compatible
Operating Temperature	-40°C ~+85°C
Maximum System Voltage	1500V DC
Fire Resistance Rating	Type 1/Class C (IEC61730)
Maximum Series Fuse Rating	20A

TEMP. CHARACTERISTICS

Nominal Operating Cell T emperature	44°C ±2°C
Temperature Coefficients of Pmax	-0.26%/°C
Temperature Coefficients of VOC	-0.24%/°C
Temperature Coefficients of ISC	0.04%/°C

PACKAGING

Standard packaging	31 pcs/pallet
Module quantity per 40' container	620 pcs