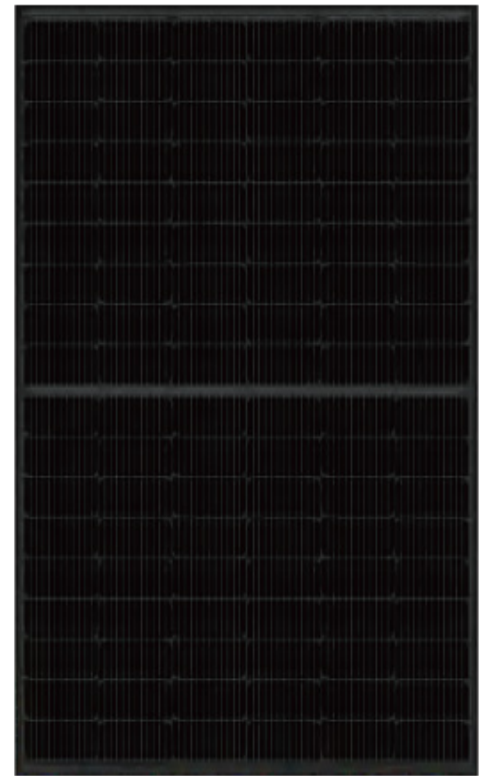
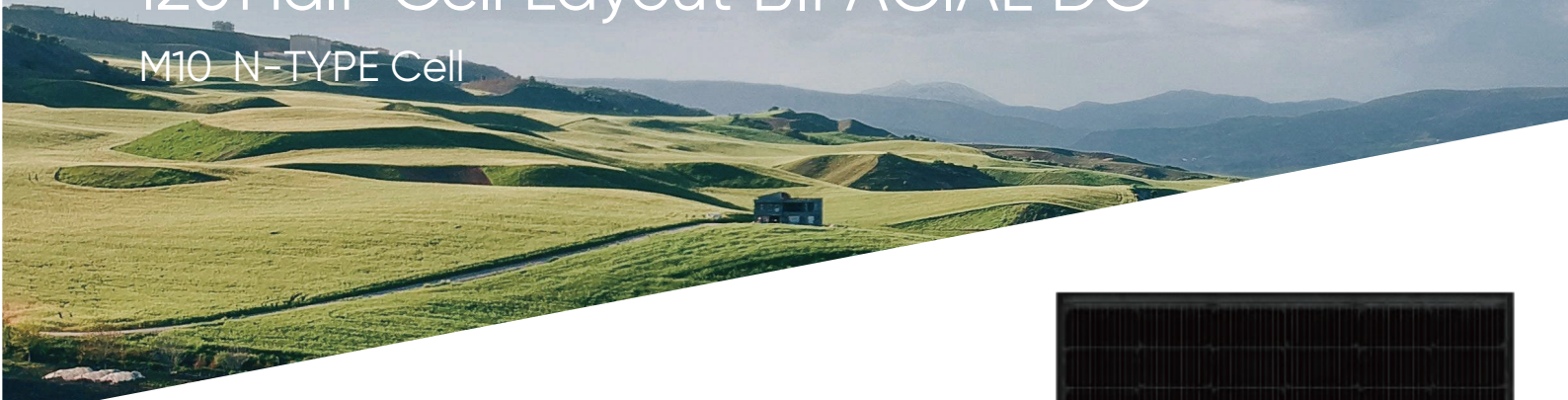


465-485 W Mono

120 Half-Cell Layout BIFACIAL DG

M10 N-TYPE Cell



N-TYPE TOP CON
Cell Technology



SMBB Half Cut
Cell Technology



Bifacial Cell
Module Technologies



Excellent
Anti-PID
Low LID
Performance



Less Hot Spot
Shading Effects



Higher Power Output
Lower BOS & LCOE

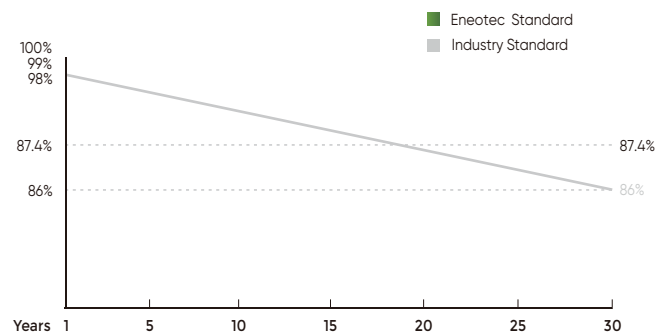
- ISO9001:2015 QMS
- ISO14001:2015 EMS
- ISO45001:2018 OHSMS
- IEC61215/IEC61730 Standard Quality
- IEC61701/IEC62716 Salt/Mist/Ammonia Tests



30
years
POWER
WARRANTY

15
years
PRODUCT
WARRANTY

Linear Performance Warranty



ELECTRICAL PARAMETERS

POWER CLASS	ENS 465N-120M10	ENS 470N-120M10	ENS 475N-120M10	ENS 480N-120M10	ENS 485N-120M10
	STC	STC	STC	STC	STC
Maximum power (Pmax)	465	470	475	480	485
Open Circuit Voltage (Voc)	35.2	35.3	35.5	35.6	35.8
Short Circuit Current (Isc)	13.22	13.31	13.39	13.48	13.56
Voltage at Maximum power (Vmp)	42.5	42.6	42.8	42.9	43.1
Current Maximum Power (Imp)	13.98	14.09	14.16	14.26	14.34
MODULE EFFICIENCY (%)	21.5%	21.7%	21.9%	22.2%	22.4%

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

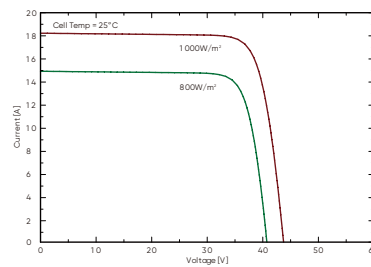
BIFACIAL OUTPUT -REAR SIDE POWER GAIN

5%	Maximum power (Pmax)	488	494	499	504	509
	Module Efficiency STC (%)	22.5%	22.8%	23.1%	23.3%	23.5%
15%	Maximum power (Pmax)	535	541	546	552	558
	Module Efficiency STC (%)	24.7%	25.0%	25.2%	25.5%	25.8%
25%	Maximum Power (Pmax)	581	588	594	600	606
	Module Efficiency STC (%)	26.8%	27.2%	27.4%	27.7%	28.0%

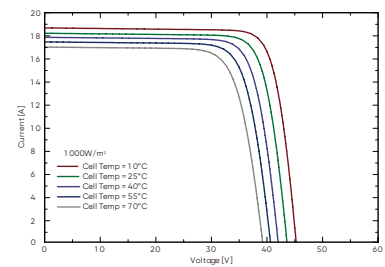
PACKING CONFIGURATION

Container	40'HQ
Pieces per pallet	36
Pallets per container	26
Pieces per container	936

I-V CURVE

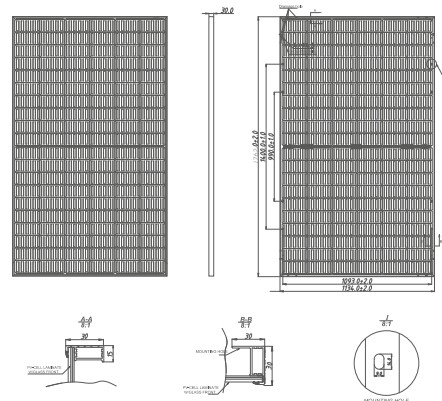


ENS475N-120M10/I-V



MECHANICAL CHARACTERISTICS

Solar Cells	N-type Mono
No. of Cells	120 (6*20)
Dimensions	1762*1134*30mm
Weight	21,80.KG
Front Glass	2.0mm coated tempered glass
Frame	Anodized aluminium alloy (reinforced high-load optional)
Junction Box	Ip68 rated (3 by pass diodes)
	4.0mm ²
Output Cables	250mm (+) / 350mm (-)
	Length can be customized
Connectors	Mc4 compatible
Mechanical load test	Front 5400Pa / Rear 2400Pa



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 (NMOT)	45±2°C
Temperature Coefficient of Pmax	-0.29%/°C
Temperature Coefficient of Pmax	-0.25%/°C
Temperature Coefficient of Pmax	+0.045%/°C