

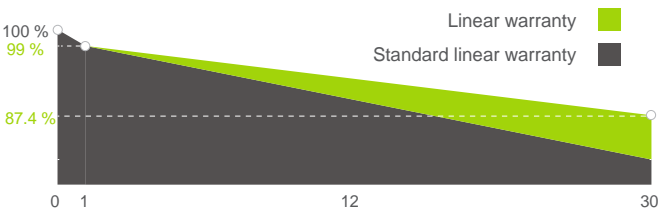


# EKO-144 N-type (182mm Cell)

## 565-585 Watt

MONOFACIAL MODULE

### Industry-leading Warranty based on nominal power



\* 0.4% Annual Degradation over 30 Years

\* 12 Year Product Warranty

\* 30 Year Linear Power Warranty



## Features



### SMBB Technology

Better light trapping and current collection to improve module power output and reliability.



### Hot 2.0 Technology

The N-type module with Hot 2.0 technology has better reliability and lower LID/LETID.



### Excellent weak light performance

More power output in weak light condition, such as cloudy, morning and sunset



### Extended wind and snow load tests

Module certified to withstand extreme wind (2400 Pascal) and snow loads (5400 Pascal) \*



### PID Resistance

Excellent Anti-PID performance guarantee via optimized mass-production process and materials control.

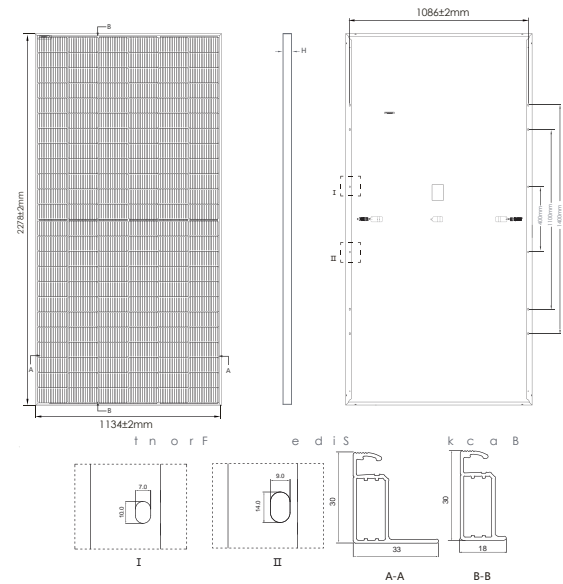


### Lower LCOE

Higher bifaciality, higher power output and lower BOS cost

## MECHANICAL SPECIFICATIONS

Cell Type	N type Mono-crystalline
Cell Dimensions	182*182mm
Cell Arrangement	144 (6*24)
Weight	27.5KG
Module Dimensions	2278*1134*30mm
Cable Length	Portrait 300mm/Landscape 1200mm/Customized
Cable Cross Section Size	TUV: 4mm <sup>2</sup> /UL: 12AWG
Front Glass	3.2mm AR Coating Tempered Glass
No. of Bypass Diodes	3/6
Packing Configuration (1)	36pcs/Pallet, 720pcs/40HQ
Frame	Anodized Aluminium Alloy
Junction Box	IP68



## ELECTRICAL SPECIFICATIONS

Module Type	EKO565N-144M10		EKO570N-144M10		EKO575N-144M10		EKO580N-144M10		EKO585N-144M10	
	STC	NMOT	STC	NMOT	STC	NMOT	STC	NMOT	STC	NMOT
Testing Condition										
Rated output (Pmp/Wp)	565	425	570	429	575	432	580	436	585	440
Maximum Power Voltage(Vmpp/V)	42.1	39.5	42.3	39.7	42.4	39.8	42.6	39.9	42.8	40.0
Maximum Power Current(Imp/A)	13.42	10.76	13.48	10.81	13.56	10.86	13.62	10.93	13.67	10.98
Open Circuit Voltage(Voc/V)	50.9	48.3	51.1	48.5	51.3	48.7	51.5	48.9	51.7	49.1
Short Circuit Current(Isc/A)	14.19	11.46	14.25	11.50	14.31	11.55	14.37	11.60	14.43	11.65
Module efficiency(%)	21.9%		22.1%		22.3%		22.5%		22.7%	
Power Tolerance (W)	0~+5		0~+5		0~+5		0~+5		0~+5	

STC: Irradiance 1000W/m<sup>2</sup>, Cell Temperature 25°C, Air Mass AM1.5 NMOT: Irradiance at 800W/m<sup>2</sup>, Ambient Temperature 20°C, Air Mass AM1.5, Wind Speed 1m/s

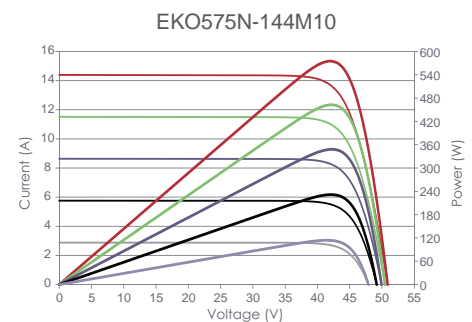
## MAXIMUM RATINGS

Maximum System Voltage	1000V/1500V DC (IEC)
Operating Temperature	-40°C ~ +85°C
Maximum Series Fuse	25A
Static Loading	Snow Loading: 5400Pa/ Wind Loading: 2400Pa
Conductivity at Ground	≤0.1Ω
Safety Class	II
Resistance	≥100MΩ

## TEMPERATURE CHARACTERISTICS

NMOT Temperature	45°C±2°C
Temperature Coefficient (Pmax)	-0.30%/°C
Temperature Coefficient (Voc)	-0.25%/°C
Temperature Coefficient (Isc)	0.046%/°C

## CURVE & TEMPERATURE DEPENDENCE



Temperature Dependence of Isc, Voc, Pmax

