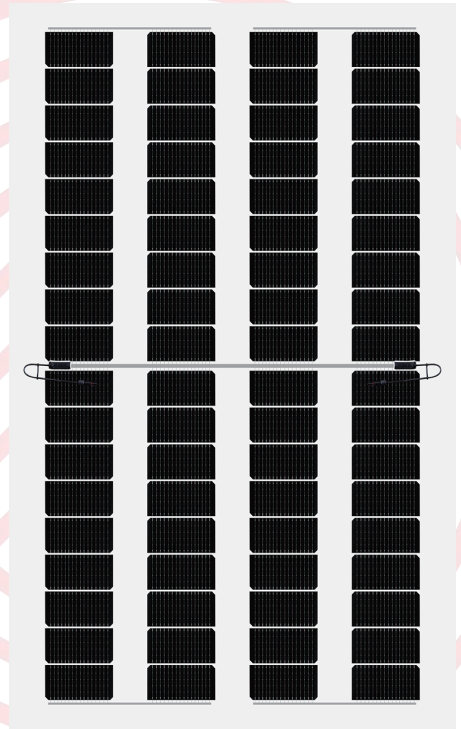


ESM-32 Luminous PV

**182mm 80Cells Double
Glass Bifacial Frameless
Luminous Mono Half Cell PV
Module Series**



TRANSMITTANCE 45 (%)

Module characteristics



SMBB Technology
Half Cut Solar Cell



High Energy
Performance



100% Inspection
30years Guarantee



Fire Class A



Strengthened
Mechanical Load

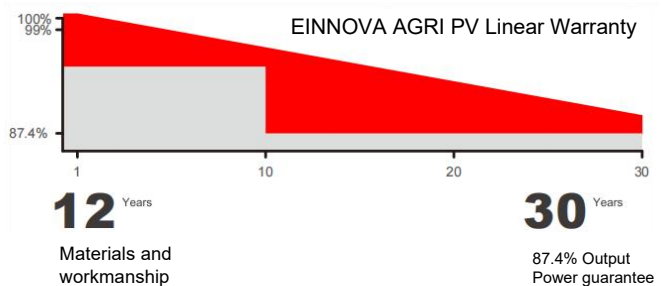


Advanced Bifacial
Efficiency

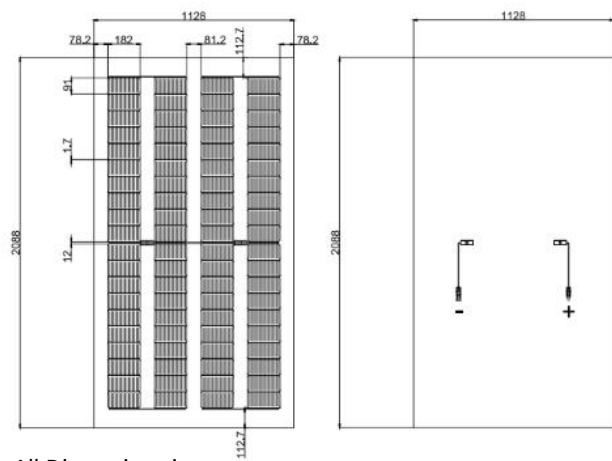


Long and reliable quality assurance

IEC61215(2016), IEC61730(2016)
ISO9001:2015: Quality management system
ISO14001:2015: Environmental management system
ISO45001:2018: Occupational health and safety management system

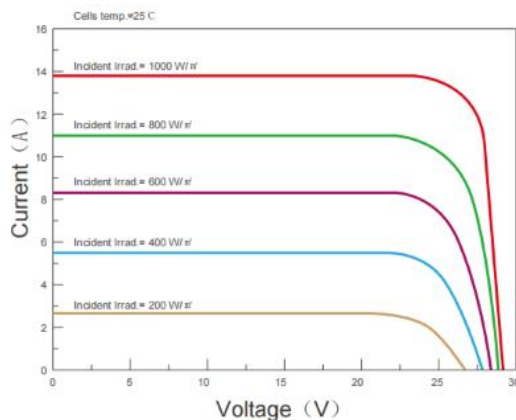


Mechanical Diagrams



All Dimensions in mm
The above drawing is a graphical representation of the product.
For engineering quality drawings please contact EINNOVA.

Curve



Characteristics(STC)

Module Type	ESM 320
	STC
Maximum Power - Pmax(W)	320
Open Circuit Voltage - Voc(V)	28.12
Short-Circuit Current - Isc(A)	13.77
Voltage at Pmax - Vmp(V)	24.6
Current at Pmax - Imp(A)	13.01
Module Efficiency - ηm(%)	19.55
Power Tolerance(W)	(0, +4.99W)
Maximum System Voltage(V)	700Vdc (IEC/UL)
Maximum Series Fuse Rating (A)	25A

STC : Irradiance 1000W/m² , Cell Temperature 25°C, Air Mass 1.5

Mechanical Specifications

Dimensions	2088*1128*5mm
Weight	27kg
Solar Cells	Mono crystalline 182mm (2x40pcs)
Front Glass	2+2 mm tempered glass
Frame	No Aluminum
Junction Box	IP67
Output Cables	4.0mm ² , 120cm (+), 120cm (-), length can be customized
Connector	MC4 Compatible
Mechanical Load	Front Side Max. 5400Pa, Rear Side Max. 2400Pa

Temperature Characteristics

Pmax Temperature Coefficient	-0.290%/°C
Voc Temperature Coefficient	-0.250%/°C
Isc Temperature Coefficient	+0.045%/°C
Operating Temperature	-40 ~ +85°C
Nominal Operating Cell Temperature(NOCT)	45±2°C

Packing Configuration

Product size	2088*1128*5mm	
Container	20'GP	40'HQ
Pieces per Pallet	34	34
Pallets per Container	6	26

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