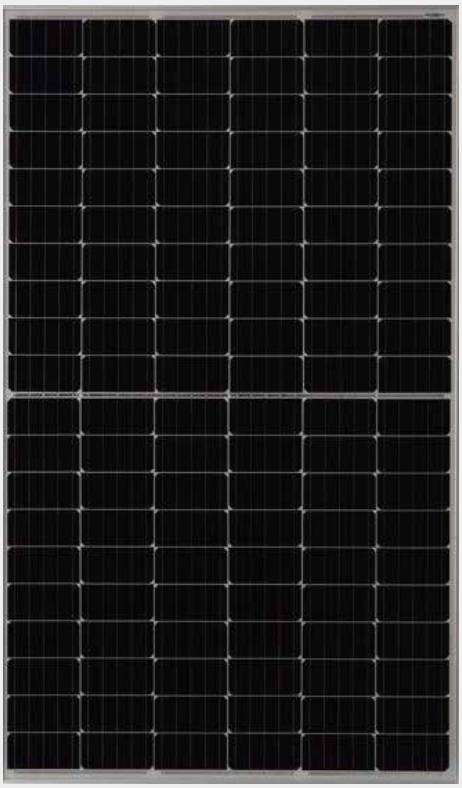
Einnova Solarline

invented for solar

Half Cut Mono Crystalline Solar Module

ESM 485/490/495/500/505H

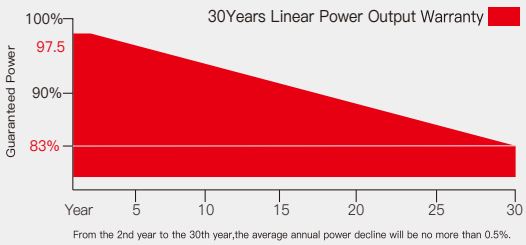


KEY FEATURES

- Excellent module efficiency up to: 21.50%
- IP68 junction box for long-term weather endurance
- Heavy snow load up to 5400 Pa, wind load up to 3600 Pa
- PID:Selected material and stringent quality system ensure PID free
- Applicable to harsh environment of deserts, farmlands and seasides
- Much lower risk of Hot Spot

CERTIFICATE

WARRANTY



From the 2nd year to the 30th year,the average annual power decline will be no more than 0.5%.

- 30 years: Linear power output warranty
  - –12 years minimum 92% power output
  - –30 years minimum 83% power output
- 12 years: Product warranty on materials and workmanship According to the applicable Einnova Solarline Limited Warranty Statement

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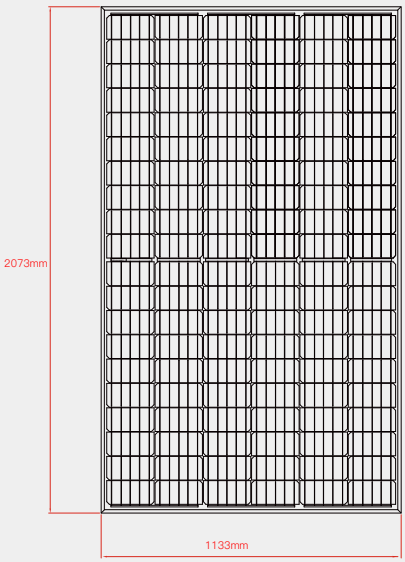
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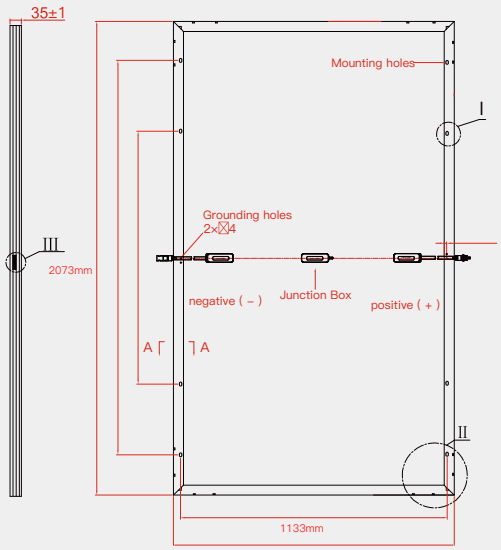
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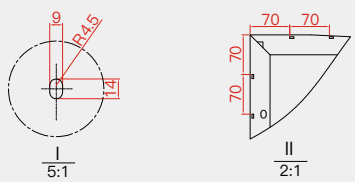
The specifications are subject to change without prior notice.

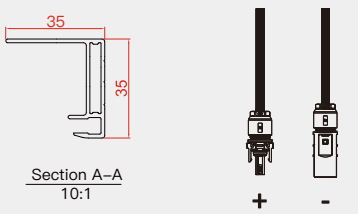
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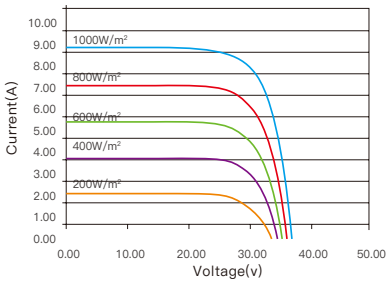


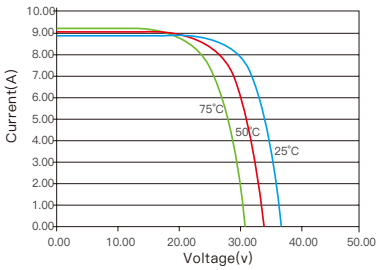






IV CURVE





ELECTRICAL Specification	Unit	ESM–485H	ESM–490H	ESM–495H	ESM–500H	ESM–505H
Maximum Power (Pmax)	W	485	490	495	500	505
Module Efficiency	%	20.6	20.90	21.10	21.30	21.50
Open Circuit Voltage (Voc)	V	45.10	45.25	45.40	45.55	45.70
Short Circuit Current (Isc)	A	13.67	13.74	13.82	13.90	13.97
Maximum Power Voltage (Vmp)	V	37.93	38.08	38.23	38.38	38.53
Maximum Power Current (Imp)	A	12.79	12.87	12.95	13.03	13.11
Maximum System Voltage	V	ICE 1500VDC/UL1500(VDC)				
Maximum Series Fuse Rating	A	25				

ELECTRICAL DATA@NOCT	ESM–485H	ESM–490H	ESM–495H	ESM–500H	ESM–505H
Pmax [W]	367	370	374	378	382
Vmp[V]	35.67	35.76	35.84	35.93	36.02
Imp [A]	10.28	10.36	10.44	10.52	10.60
Voc[V]	42.30	42.43	42.58	42.72	42.86
Isc[A]	11.06	11.13	11.20	11.27	11.34
NOCT:Irradiance:800W/m², Ambient Temperature:20°C,Air Mas:1.5,Wind Speed:1m/s					

MECHANICAL SPECIFICATIONS	
Solar Cell Type	Monocrystalline 182"
Number of Cells	120pcs (20x6)
Module Size	2073*1133*35mm
Weight	25.1kg
Glass	3.2mm tempered glass
Back Sheet	White or Black
Frame	Anodized aluminum alloy,silver or black
Junction Box	IP68,three diodes
Quantity of Diodes	3pcs
Cable	4.0mm2 1000mm
Connector	MC4 Compatible
Wind/Snow Load	3600pa/5400pa

TEMPERATURE CHARACTERISTIC	
NMOT (Nominal Module Operating Temperature)	45°C (±2°C)
Temperature Coefficient of P_{MAX}	– 0.36%/°C
Temperature Coefficient of U_{OC}	– 0.26%/°C
Temperature Coefficient of I_{SC}	0.04%/°C

PACKAGING CONFIGURATION	
Modules per box:	30pcs
Number per 20GP:	150pcs
Modules per 40' HQ:	660pcs

MAXIMUM RATINGS	
Operational Temperature	–40 to +85°C
Maximum System Voltage	1500V DC(IEC) 1500V DC (UL)
Max Series Fuse Rating	20 A
Snow Load	5400 Pa (3600 Pa)
Wind Load	3600 Pa (1600 Pa)

*design load with safety factor 1.5
(DO NOT connect Fuse in Combiner Box with two or more strings in parallel connection)

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