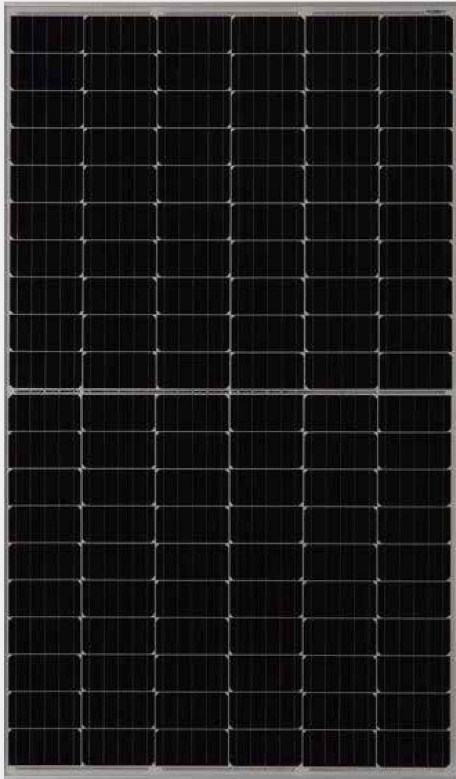


Einnova Solarline

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 seashores



Much lower risk of Hot Spot

CERTIFICATE



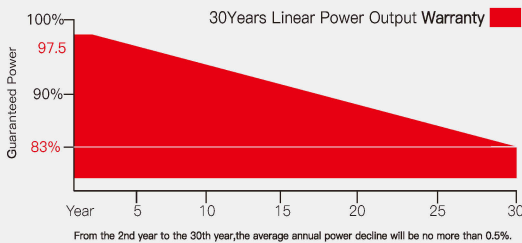
WARRANTY



Linear power output warranty
 -12 years minimum 92% power output
 -30 years minimum 83% power output



Product warranty on materials and workmanship
 According to the applicable Einnova Solarline Limited Warranty Statement



China Jiangsu
International Group Ltd.

5 West Beijing Road,
Nanjing, 210008, China

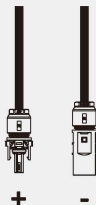
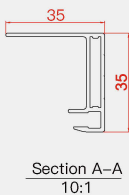
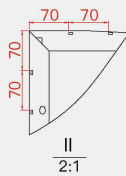
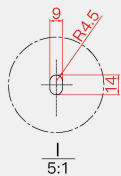
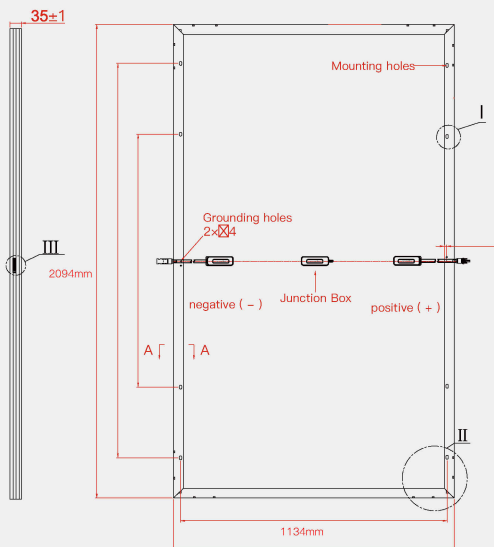
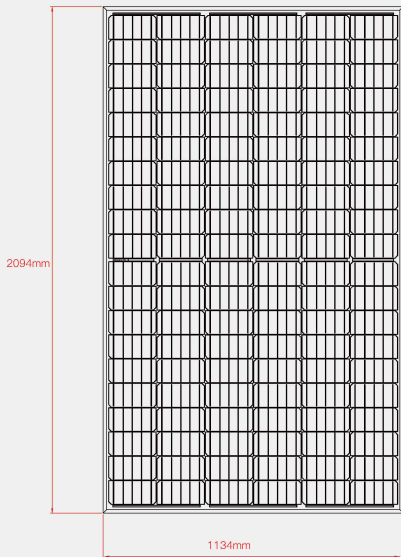
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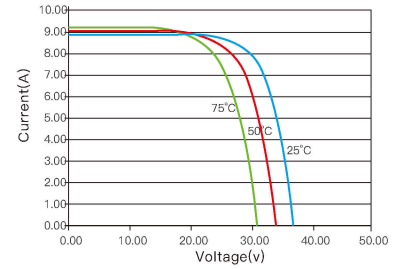
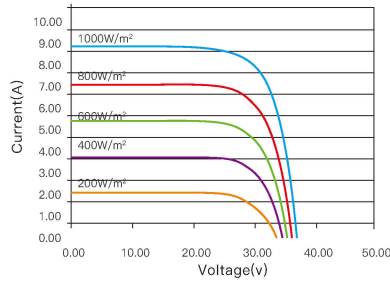
EN

Ennova Solarline

invented for solar



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	132pcs
Module Size	2094*1134*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	4.0mm ² 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	20A
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)