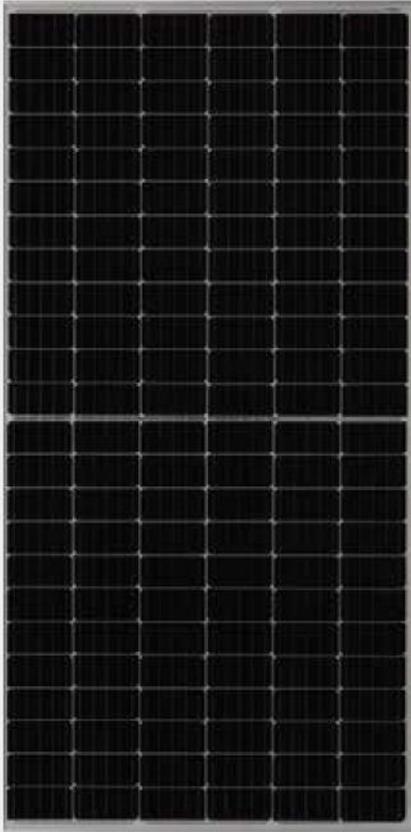


# Einnova Solarline

*invented for solar*



## PERC Half Cut Mono Crystalline Solar Module ESM 530/535/540/545/550S

### KEY FEATURES



Excellent module efficiency up to: 21.30%



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



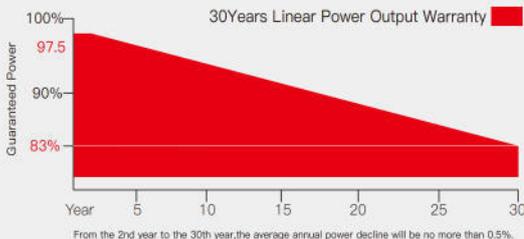
### WARRANTY



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



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International Group Ltd.

5 West Beijing Road,  
Nanjing, 210008, China

+86-(0)25-84792033  
+86-(0)25-84705923

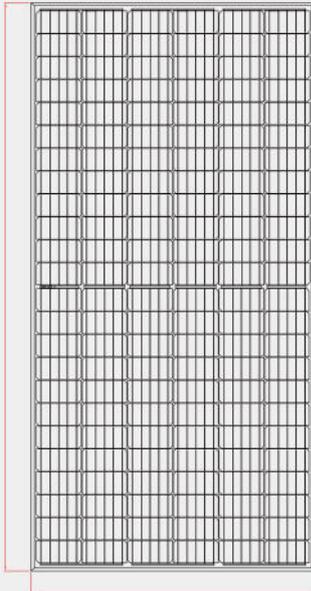
info@einnova-solarline.com  
www.einnova-solarline.com

EN

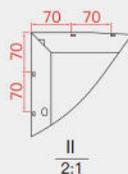
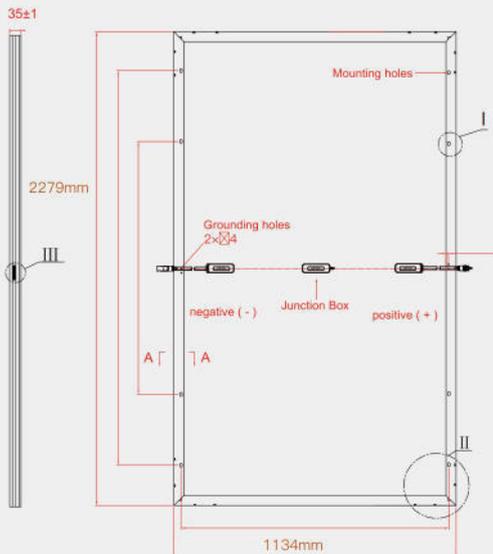
# Ennova Solarline

*invented for solar*

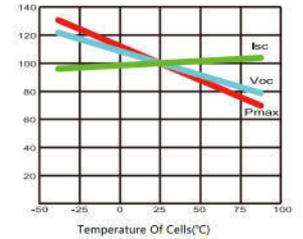
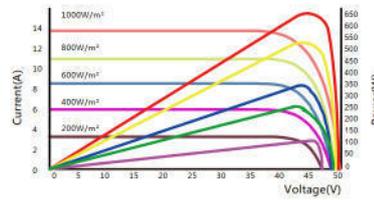
2279mm



1134mm



## IV CURVE



ELECTRICAL SPECIFICATION	Unit	ESM-530	ESM-535	ESM-540	ESM-545	ESM-550
Maximum Power (Pmax)	W	530	535	540	545	550
Module Efficiency	%	20.5	20.7	20.9	21.1	21.3
Open Circuit Voltage (Voc)	V	49.25	49.40	49.55	49.70	49.85
Short Circuit Current (Isc)	A	13.73	13.79	13.85	13.91	13.97
Maximum Power Voltage (Vmp)	V	41.40	41.55	41.70	41.85	42.00
Maximum Power Current (Imp)	A	12.81	12.88	12.95	13.03	13.09
Maximum System Voltage	V	ICE 1500VDC/UL1500(VDC)				
Maximum Series Fuse Rating	A	20				

ELECTRICAL DATA@NOCT	ESM-530	ESM-535	ESM-540	ESM-545	ESM-550
Pmax[W]	394	398	402	405	409
Vmp[V]	37.84	37.91	38.08	38.25	38.42
Imp [A]	10.42	10.50	10.55	10.60	10.65
Voc[V]	46.50	46.57	46.65	46.74	46.84
Isc[A]	11.07	11.14	11.19	11.26	11.33

NOCT: Irradiance:800W/m<sup>2</sup>, Ambient Temperature:20°C, Air Mass:1.5, Wind Speed:1m/s

MECHANICAL SPECIFICATIONS	
Solar Cell Type	Mono Crystalline 182x91mm
Number of Cells	144pcs (24x6)
Module Size	2279x1134x35mm
Weight	28.5kg
Glass	3.2mm tempered glass
Back Sheet	White or Black
Frame	Anodized aluminum alloy ,silver or black
Junction Box	IP68
Quantity of Diodes	3pcs
Cable	4.0mm <sup>2</sup> 1100mm
Connector	MC4 Compatible
Wind/Snow Load	3600pa/5400pa

TEMPERATURE CHARACTERISTIC	
NMOT (Nominal Module Operating Temperature)	41°C (±3°C)
Temperature Coefficient of P <sub>MAX</sub>	- 0.36%/°C
Temperature Coefficient of U <sub>OC</sub>	- 0.26%/°C
Temperature Coefficient of I <sub>SC</sub>	0.04%/°C

PACKAGING CONFIGURATION	
Modules per box:	31pcs
Number per 20GP:	186pcs
Modules per 40' HQ:	620pcs

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)