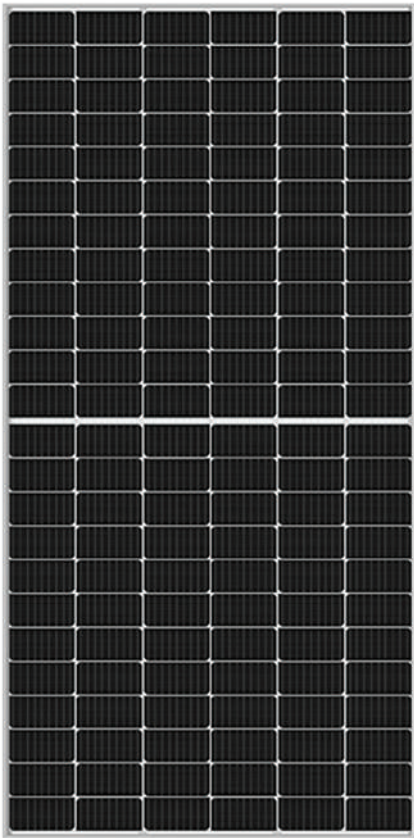


## PERC Half Cut Mono Crystalline Solar Module ESM 530/535/540/545/550S



### KEY FEATURES



Excellent module efficiency up to: 21.30%



IP68 junction box for long-term weather endurance



Heavy snow loading up to 5400 Pa, wind loading up to 2400 Pa



PID: selected material and stringent quality system ensure PID free



Applicable to harsh environment of deserts, farmlands and seashores

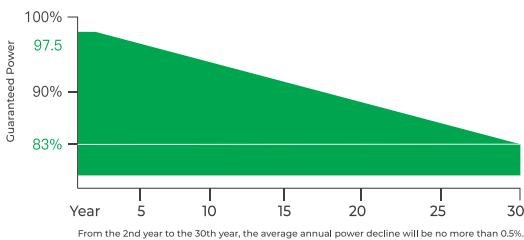


Much lower risk of Hot Spot

### CERTIFICATE



30 Years Power Output Warranty



### WARRANTY

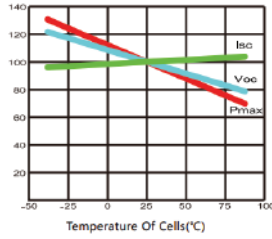
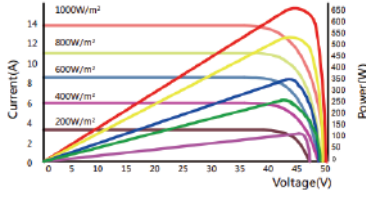


Linear power output warranty  
- 12 years minimum 92% power output  
- 30 years minimum 83% power output



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

### IV CURVE



ELECTRICAL SPECIFICATION	Unit	ESM-530S	ESM-535S	ESM-540S	ESM-545S	ESM-550S
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	13.10
Maximum System Voltage	V	ICE 1500VDC				

STC: Irradiance:1000W/m<sup>2</sup>, Module Temperature:25°, Air Mass:1.5

ELECTRICAL DATA@NOCT	ESM-530S	ESM-535S	ESM-540S	ESM-545S	ESM-550S
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	11.27	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 aluminium alloy, silver or black
Junction Box	IP68
Quantity of Diodes	3pcs
Cable	4.0mm <sup>2</sup> 1100mm
Connector	MC4 Compatible
Wind/Snow Load	2400pa/5400pa

TEMPERATURE CHARACTERISTIC	
NMOT (Nominal Module Operating Temperature)	45°C (±2 )
Temperature Coefficient of P <sub>max</sub>	- 0.36%/
Temperature Coefficient of U <sub>oc</sub>	- 0.26%/
Temperature Coefficient of I <sub>sc</sub>	0.04%/

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	1500VDC(IEC)
Max Series Fuse Rating	25A
Protection Class	Class II
Snow Loading	5400 Pa
Wind Loading	2400 Pa
Hailstone Test	25mm Hailstone at the speed of 23m/s

