

Mono Perc

Bi-Facial

500Wp-560Wp

5 GW

Manufacturing
Facility



30 Years
Performance
Warranty



12 Years
Manufacturing
Warranty

Product Certifications:

IEC TS 62804-1:2015 | IEC 61701:2011
IS 14286:2010/IEC 61215:2005
IS/IEC 61730(Part I):2004
IS/IEC 61732(Part II):2004



Best in class
thermal coefficients



Sustain heavy
snow & wind loads



Highest
commercial
gains



Split junction
box improve
heat dissipation



Increase
shade
tolerance



Highest
reliability

Corporate Head Office

F27, Amravati MIDC Area,
Express Highway NH 06,
Amravati 444607, Maharashtra.

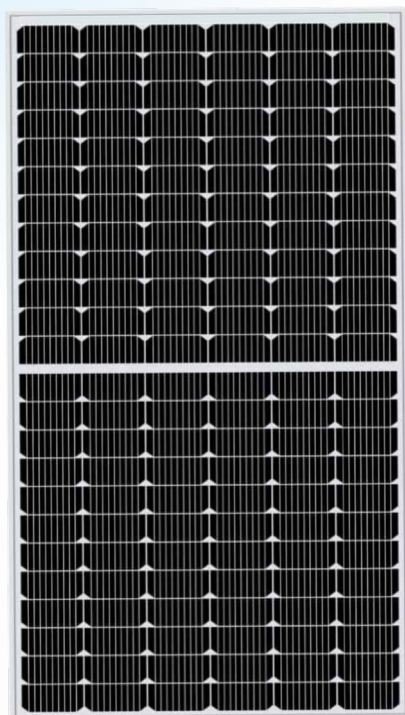
+91-9146019185
+ 0721-2520922
info@eceindia.com

Corporate Sales Office

2nd Floor, Navle Icon,
Ambegaon, Pune-411046

MONO PERC 525Wp Bi-Facial | 144 Cell

Technical Specifications

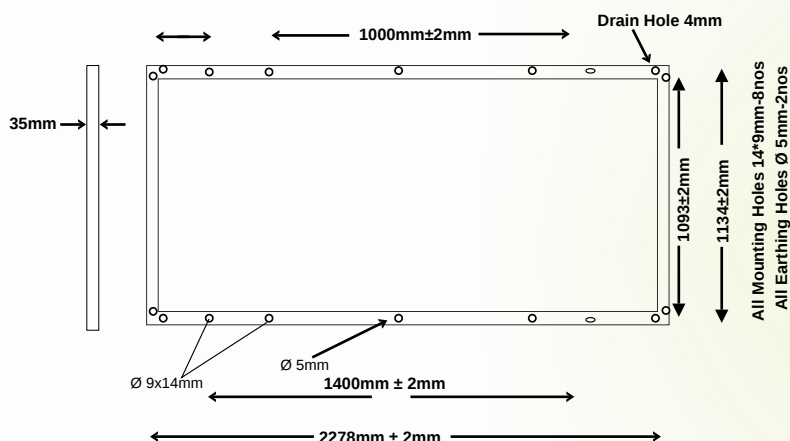


Specifications	ECE144M525
Power (Pm) in Watts (nominal)	525±2%
Open Circuit Voltage (Voc) in Volts	48.53
Short Circuit Current (Isc) in Amps	13.24
Voltage at Max Power (Vmp) in Volts	41.76
Current at Max Power (Imp) in Amps	12.58
Module Fill Factor (%)	81.76
Module Efficiency (%)	20.34%
Maximum System Voltage (Vdc)	1500V
Solar Cells per Module (Units)	144 Half Cut Cells
Max Series Fuse Rating in Amps	25

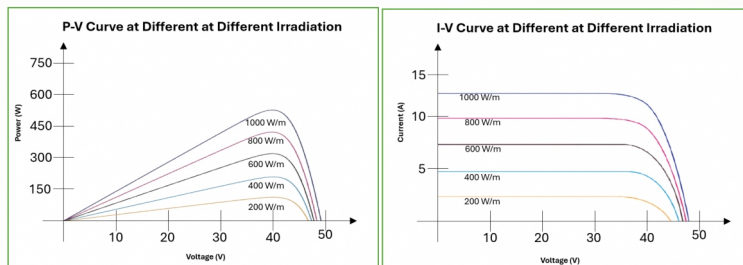
* All electrical parameters specified at STC: 25°C cell temperature; 1000W/ M² irradiance; AM 1.5

Mechanical Details

Solar Cells Type	Half cut Mono PERC
Solar Glass	3.2 mm ARC Glass
Length (L)x Width(W) x Height(T)	2278mm x 1134mm x 35mm
Area	2.58 Sqm
Mounting Hole Pitch (Y)	Y1= 1400mm, Y2=1000mm
Mounting Hole Pitch (X)	1093 ± 2 mm
Mounting hole size	14mm*9mm (± 2 mm)
Weight	≈ 28.50Kg
Internal Circuit Connection	Copper Ribbon
Frame	Silver (more than 15 micron) Anodized Aluminium
Cells Encapsulant	EVA (Ethylene Vinyl Acetate)- FC/UFC
Junction Box (Model Type & current Rating)	IP68 Split JB
Connectors	MC4 Compatible
Mechanical Load Condition	Sustain heavy Wind & Snow loads (2400Pa & 5400Pa or 550kg/m ² Maximum diameter of 24mm with hail impact of 83
Cable Length	0.4 Meter

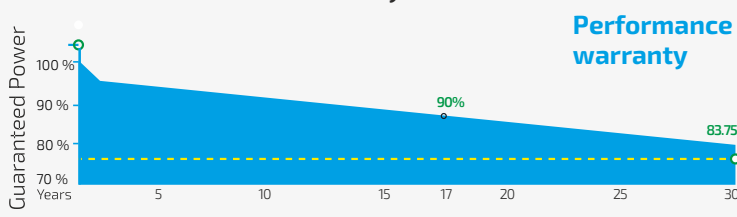


Temperature Coefficients	
Tc of Open Circuit Voltage (β)	-0.3244%/°C±0.02
Tc of Short Circuit Current (α)	0.0518%/°C±0.01
Tc of Power (γ)	-0.3345%/°C±0.02
NOCT	46±2°C



Bi-Facial output - (Back side gain @ STC)		525
15%	Nominal Maximum Power (Pmax) Wp	603.75
	Module efficiency %	23.37
20%	Nominal Maximum Power (Pmax) Wp	630.00
	Module efficiency %	24.39
25%	Nominal Maximum Power (Pmax) Wp	656.25
	Module efficiency %	25.40

Linear Performance Warranty



Product Certifications

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* Due to constant product modifications, company reserves the right to amend the above specifications without prior notice.