



Technical Specifications (Polycrystalline)

ESP110Wp

	ESD 440	
	<u>ESP 110</u>	
Power (Pm) in Watts (nominal)	110Wp	
Open Circuit Voltage (Voc) in Volts	22.82	
Short Circuit Current (Isc) in Amps	5.61	
Voltage at Maximum Power (Vmp) in Volts	19.40	
Current at Maximum Power (Imp) in Amps	5.16	
Maximum System Voltage	1000V	
Solar Cells per Module (Units)	36	
Length x Width x Thickness (L x W x T) mm	1010x665x35	
Weight – Kg	7KG	
Mounting Holes Pitch (X) – mm	630MM	
Mounting Holes Pitch (Y) – mm	500MM	
Area – Sq. M	0.671	
Junction Box	3 RAIL 10Amp	

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

157.00x157.00mm Poly-Crystalline

Tempered & Low Iron

Ethylene Vinyl Acetate

Anodized Aluminum

Construction Features

Type of cell

Encapsulate

Glass

Frame

Warranty

05 years Product Warranty

12 years - 90% of Power

25 Years - 80% of power

BACK

I-V Curve at STC

	0	3	6	9	12	15	18	21	VIV
500	Eff(Cell)= 18.595% Eff(Mod)= 16.456%					1			
						20			
1000	Rsh=	/		19.609					11
1500	Rs=	/		0.336 of	m				1
1500	FF=		/	74.44%					40
2000	Im=		/	5.637A				1	
	Vm=			19.607				1	
2500	Pmax	<=		110.524	w			1	60
3000	Isc=			6.361A	/			1	
	Voc=			23.341				1	80
3500	T=			25deg.c		,2022		l.	80
4000	Time=			14:02:50,Jun 28,2022					
4000	S/N=	Env Temprature 32.6deg.c S/N= sn 64					1	100	
4500					32 64		/	1	
	I/P@ 0.5V[A/W]=6.340/2.4								
5000								/	120
5500		110	vp				1		
6000							<hr/>		140
6000									-
I(mA)	-								P(W

Temperature Coefficient

Voltage	-0.35%/ °C
Current	0.10% / °C
Power	-0.47% / °C
NOCT	47+/-2 °C



Junction Box Weather Proof IP67 N VIEW -MM236 ⊕ 1X7MM -11X7MM mm 8.0 ± 255 222

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

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