

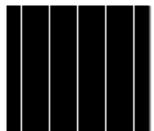
## SOLAR INNOVA GREEN TECHNOLOGY, S.L.

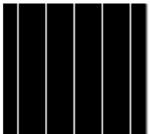
N.I.F.: ESB-54.627.278 Paseo de los Molinos, 12 03660 - NOVELDA (Alicante) SPAIN T/F: +34965075767 E: info@solarinnova.net W: www.solarinnova.net

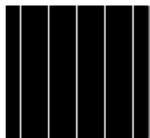


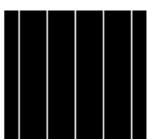
PHOTOVOLTAIC CELLS













Solar Innova uses the latest materials to manufacture photovoltaic cells.

Our cells are ideal for any application that uses the photoelectric effect as a clean energy source because of its minimal chemical pollution and no noise pollution.

Our highly efficient monocrystalline silicon cells (made from a single crystal of very high purity silicon) transform the energy from solar radiation into direct current electrical energy.

Each cell is electrically rated to optimize the behavior of the module.

Its performance is excellent over the entire range of light spectrum, with particularly high yields in low light situations or cloudiness to direct sunlight (diffuse radiation).

With anisotropic etched surface.

Low reverse current, high shunting resistance and depensability.

100% checked reverse current and visual appearance.

Small light-induced degradation.

PERFORMANCE

Our modules comply with all safety requirements not only flexibility but also double insulation and high resistance to UV rays, all are suitable for use in outdoor applications. The design of these modules makes their integration in both industrial and residential buildings (one of the most emerging sectors in the photovoltaic market), and other infrastructure, simple and aesthetic.

QUALITY CONTROL

We have quality control divided into three elements:

Regular inspections allow us to guarantee the quality of the raw material.

Quality control in the process of our manufacturing procedures.

Quality control of finished products, we conduct through inspections and tests of reliability and performance.

WARRANTIES

Our manufacturing plants have been prepared in accordance with:

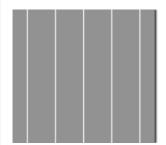
ISO 9001, in terms of Quality Systems and Business.

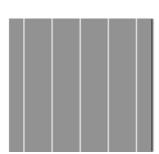
ISO 14001, in terms of Environmental Management Systems. ISO 45001, in terms of Management Systems Health and Safety.

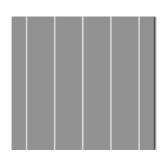
CERTIFICATES

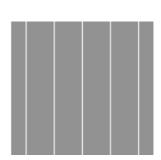
Our PV modules are certified by internationally recognized laboratories and are proof of our strict adherence to international safety

standards, long term performance and overall quality of products.









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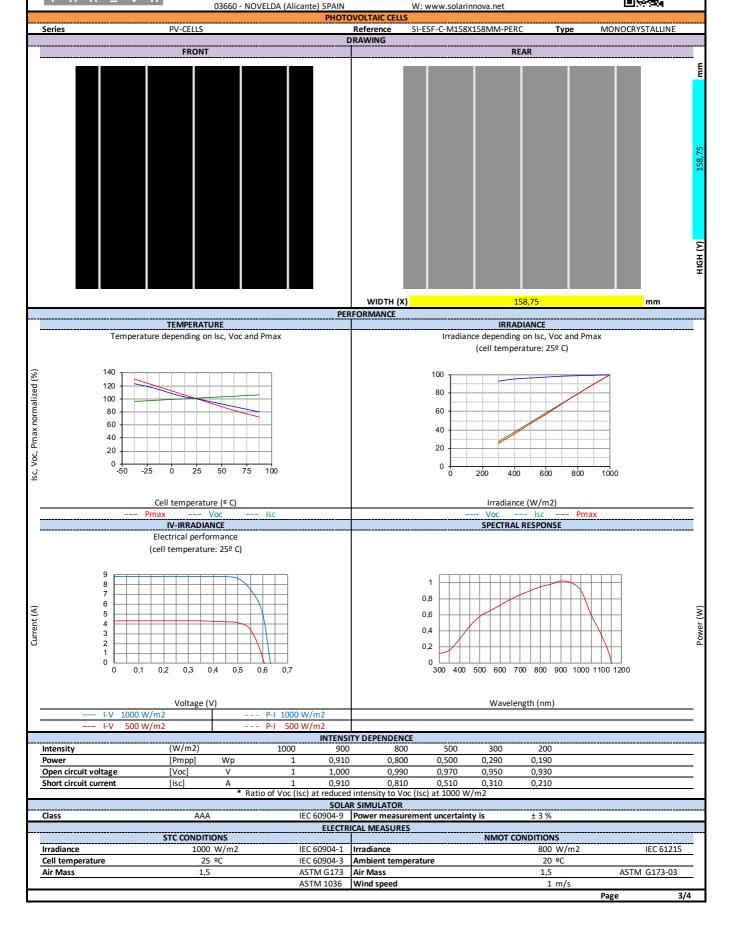
				PF	IOTOVOLTAIC CELL	<u> </u>				
Series	PV-CELLS				Reference	SI-ESF-C-	M158X158MM-I	PERC Ty	rpe Mo	ONOCRYSTALLINE
					PV CELLS					
					RICAL CHARACTERI STC CONDITIONS	STICS				
Power maximum	[Decemb	Wp	5,4			47		50	5,80	
Voltage at maximum power	[Pmpp] [Vmpp]	V	0,:			58	-,	58	0.60	
		A	9,			<del>58</del> 47	,	48	9,64	
Current at maximum power	[Impp]	V					,			
Open circuit voltage Short circuit current	[Voc]		0,68 10,03		0,68 10,03		,	68	0,70	
	[Isc]	Α						,04	10,13	
Efficiency	[ηm]	%	21, 79.			,72		.82	23,00	
Form Factor STC (Standard Test Conditions):	[FF]	%			+ Cell Temperature	,99	80 r Massu 1 F	,1/	82,09	
STC (Standard Test Conditions):		*			wer range of the c					
			(CONSIDERING L		NICAL CHARACTER		a a criority j			
	WIDTH (X)	J	HIGH (Y)	WILCHIP		ONAL	·	AREA		
Size	158.75	х	158,75	mm		3 mm		0.03 m	2	
Growth	(meth		CZ	111111		, 111111		0,03 111		
Conductive	(type		P							
Dopant	(mater	•	Boro (B)							
Orientation	(mater	iuij	<100>							
Off orientation			<±3º							
Resistivity	(ρ)		0,5 – 3 Ω cm							
Minority carrier life	(η) (τ d)		> 10 µS							
Oxygen content	(02)	,	> 10 μ3 ≤ 1 x 1018cm³							
Carbon content	(C)	,	≤ 1 x 1018cm <sup>3</sup>							
Dislocation density	(Nd	1	≤ 2 x 1017cm2							
TTV	(IVU)	,	< 30 μm							
110			< 30 μπ		COMPONENTS					
MATERIAL	QUANT	TITY	THICKN	FCC (7)	DESCRIPTION					
sc-Si		units	0,01		Si3N4		ction coating			
Busbars	5	units	0.001		CuSn6	anu-rene	ction coating			
PV Cells	_	units	-,	mm	sc-Si					
Aluminium		units	0,01		PERC-Al-BSF					
TOTAL	1	units			PERC-AI-BSF					
TOTAL			0,021		MAL CHARACTERIS	TICS				
	TEMPERATI	IRE CO	EEICIENTS	IHEK	IVIAL CHARACTERIS		MONOCRYSTALL	INE		
TEMPERATURE COEFFICIENTS Temperature coefficient of short circuit current				α	[Isc] 0,0600				%/º C	
Temperature coefficient of short circuit current  Temperature coefficient of open circuit voltage				В	[Voc]			-0.3600		%/= C %/º C
Temperature coefficient of open circuit voltage p					[Pmpp]			-0,3600		%/- C %/º C
Temperature coefficient of curre	[Impp]	0,1000				%/= C %/º C				
Temperature coefficient of volta	[Vmpp]			-0,3800		%/- C %/º C				
Nominal Module Operating Tem		pow	· • · · · · · · · · · · · · · · · · · ·		[NMOT]			+ 47 ± 2		2 C
Tronmar Woudie Operating Terri	perature				[IVIVIOI]			·/ Z		- 0



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## SOLAR INNOVA GREEN TECHNOLOGY, S.L. 5 0 1 6 2 N.I.F.: ESB-54.627.278 T/F: +34965075767 Paseo de los Molinos, 12 E: info@solarinnova.net 03660 - NOVELDA (Alicante) SPAIN W: www.solarinnova.net PHOTOVOLTAIC CELLS Reference SI-ESF STANDARD GUARANTEES LINEAR PERFORMANCE WARRANTY Series PV-CELLS SI-ESF-C-M158X158MM-PERC Type MONOCRYSTALLINE 100 95 90 85 80 75 70 0 5 10 15 20 25 Years Manufacturing defects 12 years Performance 90 % of rated power after 12 years of operation, 80 % of rated power after years of operation. Lifespan > 30 years CERTIFICATES ISO 9001 Quality Management Systems. ISO 14001 Environmental Management Systems. ISO 45001 Occupational Health and Safety Management Systems **IEC** ISO

	<b>HS Code</b> 85414020	TARIC code	8541409021								
COMMENTS											
NOTICE											
	The specifications and technical data may be subject to possible modifications wit	ns and technical data may be subject to possible modifications without notice.									
	This data sheet are conform to the requirements of the Standard EN 50380:2018.										
	Images for ilustration purposes only.										

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EXPORT INFORMATION