

## SOLAR INNOVA GREEN TECHNOLOGY, S.L.

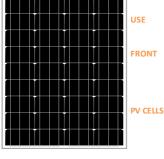
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PHOTOVOLTAIC MODULES

Series	NON STANDARD	Reference	SI-ESF-M-NE-M-80W	Type	MO
		INTRODUCTION			





**MATERIALS** 

Solar Innova uses the latest materials to manufacture photovoltaic modules.

Our modules 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.

The front of the module contains a tempered solar glass with:

High transmissivity.

• Low reflectivity.

Low iron content.

These PV modules use high-efficiency monocrystalline silicon cells (the cells are made of a single crystal of high purity silicon) to transform the energy of sunlight into electric 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).

**ENCAPSULANT** 

The cell circuit is laminated using as encapsulant:

EVA (Ethylene-Vinyl Acetate).

BACK

The rear of the module contains a plastic polymer (Tedlar) which provides complete protection and seals against environmental agents and electrical insulation.

environmental agents and electrical insulation.

FRAME

The compact, anodized aluminum frame provides an optimal relationship-weight moment of inertia, to obtain greater rigidity and resistance to twisting and bending. It has several holes to attach the module to the support structure and

ground if necessary.

JUNCTION BOX

The junction boxes with IP67, are made from high temperature resistant plastics and containing terminals, connection

terminals and protection diodes (by-pass).

These modules are supplied with symmetric lengths of cable, with a diameter of copper section of 4 mm and an extremely low contact resistance, all designed to achieve the minimum voltage drop losses.

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.

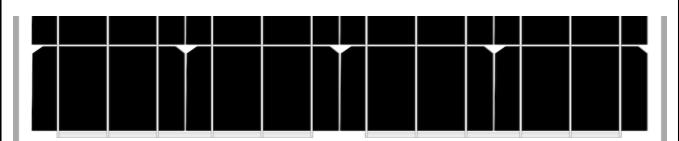
WARRANTIES

Our manufacturing plants have been prepared in accordance with:

- $\mbox{\ensuremath}\amb}\amb}\amb}}}}}}}}}}}}}}}}}}}}$
- 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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PHOTOVOLTAIC MODULES

Reference SI

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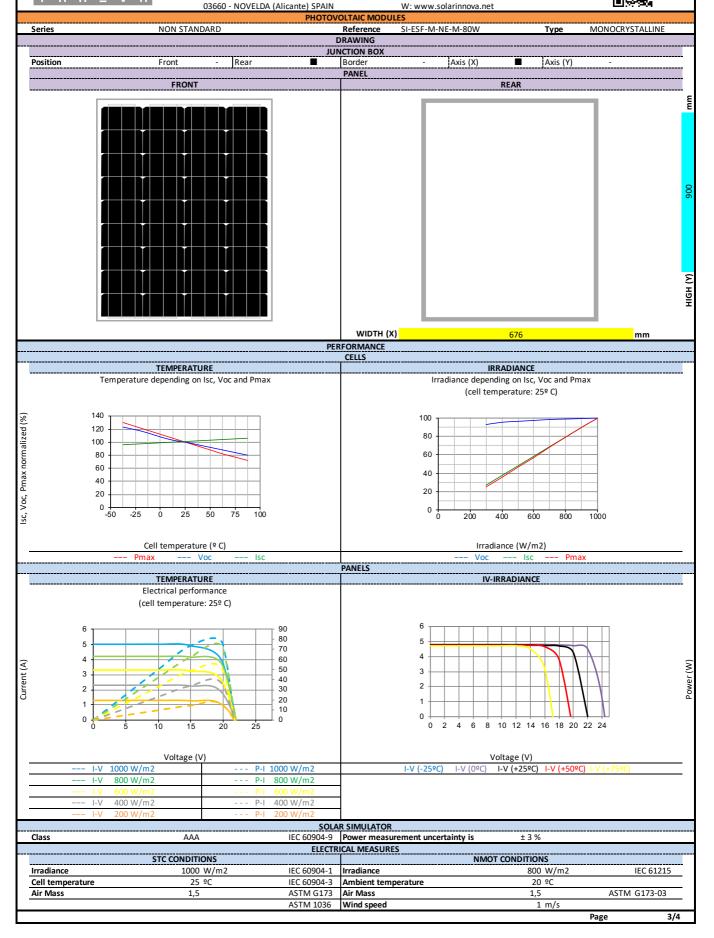


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Series	NON STAND	JAKD			Reference SI PV CELLS	-ESF-M-NE-M-80W	Туре	MONOCRYSTALLIN
Tyne	Monofacial		sc-S		FV CELLS			
Туре	NICAL CHARA	CTEDIST		51		TEMPED V	TURE COEFFICIENTS	
Size	mm	CILKISI	156,75 x 92,3 ±	+∩ 5	Tk Voltage	%/K	-0,36	
Thickness	μm		210 ±	_	Tk Current	%/K	0,07	
Front		Si3N4 a	nti-reflection co		Tk Power	%/K	-0,38	
Back			m back surface fie		TK T OWE	70/10	0,30	
Back	[1]	Aluminu	III back surface ite	. ,	/ MODULES			
					L CHARACTERISTIC	ς		
					CONDITIONS	<u></u>		
Maximum power	[Pmpp]	Wp		0.0		80		±3% (*
Power selection	[Pmpp]	Wp				0/+2,40		
Voltage at maximum power	[Vmpp]	V				17,21		IEC 609
Current at maximum power	[Impp]	A				4,65		IEC 609
Open circuit voltage	[Voc]	V				22,40		±3% (*
Short circuit current	[Isc]	A				5,00		±4% (*
Maximum system voltage	[Vsyst]	V				715		IEC / U
Maximum series fuse rating	[Isc]	A				10		1207 0
Efficiency	[ŋm]	%				13,15		
Form Factor	[FF]	%				71.45		
STC (Standard Test Conditions):	11.1	70	Irradiance: 100	0 W/m2 + Ce	II Temperature: 25	, -		
		*			range of the certifi			
			,		T CONDITIONS			
Maximum power	[Pmpp]	Wp				59		IEC 612
Voltage at maximum power	[Vmpp]	V				15,67		
Current at maximum power	[Impp]	A				3,78		
Open circuit voltage	[Voc]	V				20,47		
Short circuit current	[Isc]	A				4,06		
NMOT (Nominal Module Operati			Irradiance: 800	W/m2 + Am	bient Temperature	: 20º C + Air Mass: 1.5	+ Wind Speed: 1 m/s	
·	<u> </u>	-		MECHANICA	AL CHARACTERISTI	CS	<u> </u>	
PANEL	WIDTH (X)		HIGH (Y)				AREA	POWER/AREA
	WIDTH (X) 676	х	HIGH (Y) 900 r	mm			AREA 0.61 m2	POWER/AREA 132 Wp/mi
Size	676	х	<b>HIGH (Y)</b> 900 r	mm				POWER/AREA 132 Wp/m
Size CELLS				mm =	36 ur	nits	0,61 m2	
Size CELLS	676	x	900 r	=	36 ur	nits		
Size CELLS Quantity	676	х	900 r	= CO	MPONENTS		0,61 m2 0,52 m2	
Size CELLS Quantity MATERIAL	676 4 QUANT	X	900 r 9 THICKNE	= CO ESS (Z)	MPONENTS DESCRIPTION	DENSITY	0,61 m2 0,52 m2 TOTAL WEIGHT	
Size CELLS Quantity MATERIAL Frame	4 QUANT	X TITY units	900 r 9 THICKNE 35 r	= CO :SS (Z)	MPONENTS DESCRIPTION Al 6065-T5	DENSITY 1,23 kg/m2	0,61 m2 0,52 m2 TOTAL WEIGHT 0,75 kg	
Size CELLS Quantity MATERIAL Frame Glass	4 QUANT	X ITY units units	900 r 9 THICKNE 35 r 3,2 r	= CO	MPONENTS DESCRIPTION Al 6065-T5 Tempered	<b>DENSITY</b> 1,23 kg/m2 8,10 kg/m2	0,61 m2 0,52 m2 TOTAL WEIGHT 0,75 kg 4,93 kg	
Size CELLS Quantity MATERIAL Frame Glass Sheet Encapsulant	4 QUANT 1 1 1	X TITY units units units	900 r 9 THICKNE 35 r 3,2 r 0,38 r	= CO ESS (Z) mm mm	MPONENTS DESCRIPTION Al 6065-T5 Tempered EVA	DENSITY 1,23 kg/m2 8,10 kg/m2 0,40 kg/m2	0,61 m2 0,52 m2 TOTAL WEIGHT 0,75 kg 4,93 kg 0,25 kg	
Size CELLS Quantity MATERIAL Frame Glass Sheet Encapsulant Busbars	4 QUANT 1 1 1 5	X  TITY  units  units  units  units  units	900 r  9  THICKNE 35 r 3,2 r 0,38 r 0,2 r	= CO ESS (Z) mm mm mm	MPONENTS DESCRIPTION AI 6065-T5 Tempered EVA CuSn6	DENSITY  1,23 kg/m2  8,10 kg/m2  0,40 kg/m2  0,10 kg/m2	0,61 m2  0,52 m2  TOTAL WEIGHT  0,75 kg  4,93 kg  0,25 kg  0,05 kg	
Size CELLS Quantity MATERIAL Frame Glass Sheet Encapsulant Busbars PV Cells	QUANT 1 1 1 5 36	x units units units units units units	900 r  THICKNE 35 r 3,2 r 0,38 r 0,2 r 0,21 r	= CO	MPONENTS DESCRIPTION AI 6065-T5 Tempered EVA CuSn6 sc-Si	DENSITY 1,23 kg/m2 8,10 kg/m2 0,40 kg/m2 0,10 kg/m2 0,20 kg/m2	0,61 m2  0,52 m2  TOTAL WEIGHT  0,75 kg  4,93 kg  0,25 kg  0,05 kg  0,10 kg	
Size CELLS Quantity MATERIAL Frame Glass Sheet Encapsulant Busbars PV Cells Sheet Encapsulant	QUANT 1 1 1 5 36	x units units units units units units units	900 r  THICKNE 35 r  3,2 r  0,38 r  0,2 r  0,21 r  0,38 r	= CO	MPONENTS DESCRIPTION AI 6065-T5 Tempered EVA CuSn6 sc-Si EVA	DENSITY 1,23 kg/m2 8,10 kg/m2 0,40 kg/m2 0,10 kg/m2 0,10 kg/m2 0,20 kg/m2 0,40 kg/m2	0,61 m2  0,52 m2  TOTAL WEIGHT  0,75 kg  4,93 kg  0,25 kg  0,05 kg  0,10 kg  0,25 kg	
Size  CELLS  Quantity  MATERIAL  Frame  Glass  Sheet Encapsulant  Busbars  PV Cells  Sheet Encapsulant  Backsheet	QUANT 1 1 1 1 5 36 1 1	x units	900 r  THICKNE 35 r 3,2 r 0,38 r 0,21 r 0,21 r 0,38 r 0,5 r	= CO SSS (Z) mm mm mm mm mm mm	MPONENTS DESCRIPTION AI 6065-T5 Tempered EVA CuSn6 sc-Si EVA TPT	DENSITY  1,23 kg/m2 8,10 kg/m2 0,40 kg/m2 0,10 kg/m2 0,20 kg/m2 0,40 kg/m2 0,40 kg/m2 0,40 kg/m2 0,47 kg/m2	0,61 m2  0,52 m2  TOTAL WEIGHT  0,75 kg  4,93 kg  0,25 kg  0,05 kg  0,10 kg  0,25 kg  0,25 kg  0,29 kg	
CELLS Quantity  MATERIAL Frame Glass Sheet Encapsulant Busbars PV Cells Sheet Encapsulant Backsheet Junction Box	QUANT 1 1 1 5 36 1 1 1 1	x units	900 r  THICKNE 35 r  3,2 r  0,38 r  0,2 r  0,21 r  0,38 r	= CO SSS (Z) mm mm mm mm mm mm	MPONENTS DESCRIPTION AI 6065-T5 Tempered EVA CuSn6 sc-Si EVA	DENSITY  1,23 kg/m2  8,10 kg/m2  0,40 kg/m2  0,10 kg/m2  0,20 kg/m2  0,40 kg/m2  0,41 kg/m2  0,40 kg/m2  0,40 kg/m2	0,61 m2  0,52 m2  TOTAL WEIGHT  0,75 kg  4,93 kg  0,25 kg  0,05 kg  0,10 kg  0,25 kg  0,29 kg  0,29 kg  0,10 kg	
Size CELLS Quantity  MATERIAL Frame Glass Sheet Encapsulant Busbars PV Cells Sheet Encapsulant Backsheet Junction Box Diodes (By-pass)	QUANT 1 1 1 5 36 1 1 1 2	x units	900 r THICKNE 35 r 3,2 r 0,38 r 0,21 r 0,21 r 0,38 r 0,5 r 10 r	= CO	MPONENTS DESCRIPTION AI 6065-T5 Tempered EVA CuSn6 sc-Si EVA TPT Monopolar	DENSITY  1,23 kg/m2  8,10 kg/m2  0,40 kg/m2  0,10 kg/m2  0,20 kg/m2  0,40 kg/m2  0,40 kg/m2  0,40 kg/m2  0,40 kg/m2  0,40 kg/m2  0,40 kg/m2  0,10 kg/m2  0,10 kg/m2  0,01 kg/m2	0,61 m2  0,52 m2  TOTAL WEIGHT  0,75 kg  4,93 kg  0,25 kg  0,10 kg  0,25 kg  0,29 kg  0,10 kg  0,29 kg  0,10 kg  0,29 kg  0,10 kg	
Size CELLS Quantity  MATERIAL Frame Glass Sheet Encapsulant Busbars PV Cells Sheet Encapsulant Backsheet Junction Box Diodes (By-pass) Cables (+/-)	QUANT 1 1 1 1 5 36 1 1 1 2 2	x units	900 r  THICKNE 35 r 3,2 r 0,38 r 0,2 r 0,21 r 0,38 r 10 r 10 r	= CO	MPONENTS DESCRIPTION AI 6065-T5 Tempered EVA CUSN6 Sc-Si EVA TPT Monopolar 900 mm	DENSITY  1,23 kg/m2  8,10 kg/m2  0,40 kg/m2  0,10 kg/m2  0,20 kg/m2  0,40 kg/m2  0,40 kg/m2  0,40 kg/m2  0,40 kg/m2  0,10 kg/m2  0,10 kg/m2  0,10 kg/m2  0,10 kg/m2	0,61 m2  0,52 m2  TOTAL WEIGHT  0,75 kg  4,93 kg  0,25 kg  0,05 kg  0,10 kg  0,25 kg  0,29 kg  0,10 kg  0,20 kg  0,02 kg  0,02 kg	
Size CELLS Quantity  MATERIAL Frame Glass Sheet Encapsulant Busbars PV Cells Sheet Encapsulant Backsheet Junction Box Diodes (By-pass) Cables (+/-) Connectors	QUANT 1 1 1 1 5 36 1 1 1 2 2	x units	900 r  THICKNE 35 r 3,2 r 0,38 r 0,2 r 0,21 r 0,38 r 0,5 r 10 r	= CO	MPONENTS DESCRIPTION AI 6065-T5 Tempered EVA CuSn6 sc-Si EVA TPT Monopolar	DENSITY  1,23 kg/m2 8,10 kg/m2 0,40 kg/m2 0,10 kg/m2 0,20 kg/m2 0,40 kg/m2 0,47 kg/m2 0,10 kg/m2 0,01 kg/m2 0,01 kg/m2 0,01 kg/m2 0,01 kg/m2 0,01 kg/m2	0,61 m2  0,52 m2  TOTAL WEIGHT  0,75 kg  4,93 kg  0,25 kg  0,05 kg  0,10 kg  0,25 kg  0,29 kg  0,10 kg  0,02 kg  0,02 kg  0,02 kg  0,00 kg	
Size CELLS Quantity  MATERIAL Frame Glass Sheet Encapsulant Busbars PV Cells Sheet Encapsulant Backsheet Junction Box Diodes (By-pass) Cables (+/-)	QUANT 1 1 1 1 5 36 1 1 1 2 2	x units	900 r  THICKNE 35 r 3,2 r 0,38 r 0,2 r 0,21 r 0,38 r 10 r 10 r	= CO	MPONENTS DESCRIPTION AI 6065-T5 Tempered EVA CuSn6 sc-Si EVA TPT Monopolar 900 mm PVC-IP67	DENSITY  1,23 kg/m2 8,10 kg/m2 0,40 kg/m2 0,10 kg/m2 0,20 kg/m2 0,40 kg/m2 0,47 kg/m2 0,10 kg/m2 0,01 kg/m2 0,01 kg/m2 0,01 kg/m2 0,10 kg/m2 11,16 kg/m2	0,61 m2  0,52 m2  TOTAL WEIGHT  0,75 kg  4,93 kg  0,25 kg  0,05 kg  0,10 kg  0,25 kg  0,29 kg  0,10 kg  0,20 kg  0,02 kg  0,02 kg	
Size CELLS Quantity  MATERIAL Frame Glass Sheet Encapsulant Busbars PV Cells Sheet Encapsulant Backsheet Junction Box Diodes (By-pass) Cables (+/-) Connectors	G76  QUANT  1  1  1  1  1  1  1  2  2  2	x units	900 r  THICKNE 35 r  3,2 r  0,38 r  0,21 r  0,21 r  0,38 r  0,5 r  MC4-T4 t	= CO	MPONENTS DESCRIPTION AI 6065-T5 Tempered EVA CUSN6 Sc-Si EVA TPT Monopolar 900 mm	DENSITY  1,23 kg/m2 8,10 kg/m2 0,40 kg/m2 0,10 kg/m2 0,20 kg/m2 0,40 kg/m2 0,47 kg/m2 0,10 kg/m2 0,10 kg/m2 0,10 kg/m2 0,10 kg/m2 11,16 kg/m2	0,61 m2  0,52 m2  TOTAL WEIGHT  0,75 kg  4,93 kg  0,25 kg  0,05 kg  0,10 kg  0,25 kg  0,29 kg  0,10 kg  0,20 kg  0,20 kg  0,10 kg  7,03 kg	
Size CELLS Quantity  MATERIAL  Frame Glass Sheet Encapsulant Busbars PV Cells Sheet Encapsulant Backsheet Junction Box Diodes (By-pass) Cables (+/-) Connectors TOTAL	900 4 4 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9	x units	900 r THICKNE 35 r 3,2 r 0,38 r 0,21 r 0,38 r 0,5 r 10 r MC4-T4 t 35 r	COSS (Z) mm	MPONENTS DESCRIPTION AI 6065-T5 Tempered EVA CuSn6 sc-Si EVA TPT Monopolar  900 mm PVC-IP67	DENSITY  1,23 kg/m2 8,10 kg/m2 0,40 kg/m2 0,10 kg/m2 0,20 kg/m2 0,40 kg/m2 0,47 kg/m2 0,10 kg/m2 0,01 kg/m2 0,01 kg/m2 0,01 kg/m2 0,10 kg/m2 11,16 kg/m2	0,61 m2  0,52 m2  TOTAL WEIGHT  0,75 kg  4,93 kg  0,25 kg  0,10 kg  0,25 kg  0,29 kg  0,10 kg  0,20 kg  0,10 kg  0,70 kg  0,70 kg  0,70 kg	132 Wp/m.
Size  CELLS  Quantity  MATERIAL  Frame  Glass Sheet Encapsulant Busbars PV Cells Sheet Encapsulant Backsheet Junction Box Diodes (By-pass) Cables (+/-) Connectors TOTAL  Temperature coefficient of short	900 4 4 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	x units	900 r THICKNE 35 r 3,2 r 0,38 r 0,21 r 0,38 r 0,5 r 10 r MC4-T4 t 35 r	= CO	MPONENTS DESCRIPTION AI 6065-T5 Tempered EVA CuSn6 sc-Si EVA TPT Monopolar  900 mm PVC-IP67  CHARACTERISTICS	DENSITY  1,23 kg/m2 8,10 kg/m2 0,40 kg/m2 0,10 kg/m2 0,20 kg/m2 0,40 kg/m2 0,47 kg/m2 0,10 kg/m2 0,10 kg/m2 0,10 kg/m2 0,10 kg/m2 11,16 kg/m2	0,61 m2  0,52 m2  TOTAL WEIGHT  0,75 kg  4,93 kg  0,25 kg  0,10 kg  0,25 kg  0,29 kg  0,20 kg  0,10 kg  7,03 kg	132 Wp/m.
Size CELLS Quantity  MATERIAL Frame Glass Sheet Encapsulant Busbars PV Cells Sheet Encapsulant Backsheet Junction Box Diodes (By-pass) Cables (+/-) Connectors TOTAL  Temperature coefficient of short Temperature coefficient of open	QUANT 1 1 1 1 5 36 1 1 1 2 2 2 2 TEMPERATU	x units	900 r  THICKNE  35 r  3,2 r  0,38 r  0,21 r  0,38 r  0,5 r  10 r  MC4-T4 t  35 r	= CO	MPONENTS DESCRIPTION AI 6065-T5 Tempered EVA CUSn6 sc-Si EVA TPT Monopolar  900 mm PVC-IP67  CHARACTERISTICS [Isc] [Voc]	DENSITY  1,23 kg/m2 8,10 kg/m2 0,40 kg/m2 0,10 kg/m2 0,20 kg/m2 0,40 kg/m2 0,47 kg/m2 0,10 kg/m2 0,10 kg/m2 0,10 kg/m2 0,10 kg/m2 11,16 kg/m2	0,61 m2  0,52 m2  TOTAL WEIGHT  0,75 kg  4,93 kg  0,25 kg  0,10 kg  0,25 kg  0,10 kg  0,20 kg  0,10 kg  7,03 kg  1,10 kg	132 Wp/m.
Size CELLS Quantity  MATERIAL Frame Glass Sheet Encapsulant Busbars PV Cells Sheet Encapsulant Backsheet Junction Box Diodes (By-pass) Cables (+/-) Connectors TOTAL  Temperature coefficient of short Temperature coefficient of open Temperature coefficient of maxin	QUANT 1 1 1 1 5 36 1 1 1 2 2 2 2 TEMPERATU	x units	900 r THICKNE 35 r 3,2 r 0,38 r 0,2 r 0,21 r 0,38 r 0,5 r 10 r MC4-T4 t 35 r	= CO	MPONENTS DESCRIPTION AI 6065-T5 Tempered EVA CuSn6 sc-Si EVA TPT Monopolar 900 mm PVC-IP67 CHARACTERISTICS [Isc] [Voc] [Pmpp]	DENSITY  1,23 kg/m2 8,10 kg/m2 0,40 kg/m2 0,10 kg/m2 0,20 kg/m2 0,40 kg/m2 0,47 kg/m2 0,10 kg/m2 0,10 kg/m2 0,10 kg/m2 0,10 kg/m2 11,16 kg/m2	0,61 m2  0,52 m2  TOTAL WEIGHT  0,75 kg  4,93 kg  0,25 kg  0,10 kg  0,25 kg  0,10 kg  0,20 kg  0,10 kg  0,02 kg  0,10 kg  7,03 kg  T,03 kg	132 Wp/m.
Size CELLS Quantity  MATERIAL Frame Glass Sheet Encapsulant Busbars PV Cells Sheet Encapsulant Backsheet Junction Box Diodes (By-pass) Cables (+/-) Connectors TOTAL  Temperature coefficient of short Temperature coefficient of open Temperature coefficient of maxit Temperature coefficient of curren	QUANT  1 1 1 5 36 1 1 1 2 2 2 2 TEMPERATU circuit curreng mum power nt at maximu	x units	900 r  THICKNE 35 r 3,2 r 0,38 r 0,2 r 0,21 r 0,38 r 0,5 r 10 r  MC4-T4 t 35 r	= CO	MPONENTS DESCRIPTION AI 6065-T5 Tempered EVA CuSn6 sc-Si EVA TPT Monopolar  900 mm PVC-IP67  CHARACTERISTICS [Isc] [Voc] [Pmpp] [Impp]	DENSITY  1,23 kg/m2 8,10 kg/m2 0,40 kg/m2 0,10 kg/m2 0,20 kg/m2 0,40 kg/m2 0,47 kg/m2 0,10 kg/m2 0,10 kg/m2 0,10 kg/m2 0,10 kg/m2 11,16 kg/m2	0,61 m2  0,52 m2  TOTAL WEIGHT  0,75 kg  4,93 kg  0,25 kg  0,05 kg  0,10 kg  0,25 kg  0,10 kg  0,20 kg  0,10 kg  0,20 kg  0,10 kg  0,20 kg  0,10 kg  0,21 kg  0,22 kg  0,10 kg  0,10 kg  0,21 kg  0,10 kg  0,10 kg  7,03 kg	132 Wp/m.  %/º C %/º C %/º C
Size CELLS Quantity  MATERIAL Frame Glass Sheet Encapsulant Busbars PV Cells Sheet Encapsulant Backsheet Junction Box Diodes (By-pass) Cables (+/-) Connectors TOTAL  Temperature coefficient of short Temperature coefficient of open Temperature coefficient of maxit Temperature coefficient of curre Temperature coefficient of curre Temperature coefficient of ocurre	QUANT 1 1 1 5 36 1 1 1 2 2 2 2 2 TEMPERATU circuit curren circuit voltag mum power nt at maximu ge at maximu	x units	900 r  THICKNE 35 r 3,2 r 0,38 r 0,2 r 0,21 r 0,38 r 0,5 r 10 r  MC4-T4 t 35 r	= CO	MPONENTS DESCRIPTION AI 6065-T5 Tempered EVA CuSn6 sc-Si EVA TPT Monopolar  900 mm PVC-IP67  CHARACTERISTICS [Isc] [Voc] [Pmpp] [Impp] [Vmpp]	DENSITY  1,23 kg/m2 8,10 kg/m2 0,40 kg/m2 0,10 kg/m2 0,20 kg/m2 0,40 kg/m2 0,47 kg/m2 0,10 kg/m2 0,10 kg/m2 0,10 kg/m2 0,10 kg/m2 11,16 kg/m2	0,61 m2  0,52 m2  TOTAL WEIGHT  0,75 kg  4,93 kg  0,25 kg  0,05 kg  0,10 kg  0,25 kg  0,20 kg  0,10 kg  0,20 kg  0,10 kg  0,20 kg  0,10 kg  0,21 kg  0,21 kg  0,21 kg  0,22 kg  0,33 kg  T,03 kg  UINE  0,8814  -0,3910 -0,5141  0,1000 -0,3800	132 Wp/m.  %/º C  %/º C  %/º C  %/º C  %/º C
Size CELLS Quantity  MATERIAL Frame Glass Sheet Encapsulant Busbars PV Cells Sheet Encapsulant Backsheet Junction Box Diodes (By-pass) Cables (+/-) Connectors TOTAL  Temperature coefficient of short Temperature coefficient of open Temperature coefficient of maxit Temperature coefficient of curren	QUANT 1 1 1 5 36 1 1 1 2 2 2 2 2 TEMPERATU circuit curren circuit voltag mum power nt at maximu ge at maximu	x units	900 r  THICKNE 35 r 3,2 r 0,38 r 0,2 r 0,21 r 0,38 r 0,5 r 10 r  MC4-T4 t 35 r	= CO SSS (Z) mm	MPONENTS DESCRIPTION AI 6065-T5 Tempered EVA CuSn6 sc-Si EVA TPT Monopolar  900 mm PVC-IP67  CHARACTERISTICS [Isc] [Voc] [Pmpp] [Impp] [Vmpp] [NMOT]	DENSITY  1,23 kg/m2 8,10 kg/m2 0,40 kg/m2 0,10 kg/m2 0,20 kg/m2 0,40 kg/m2 0,47 kg/m2 0,10 kg/m2 0,10 kg/m2 0,10 kg/m2 0,10 kg/m2 11,16 kg/m2	0,61 m2  0,52 m2  TOTAL WEIGHT  0,75 kg  4,93 kg  0,25 kg  0,05 kg  0,10 kg  0,25 kg  0,10 kg  0,20 kg  0,10 kg  0,20 kg  0,10 kg  0,20 kg  0,10 kg  0,21 kg  0,22 kg  0,10 kg  0,10 kg  0,21 kg  0,10 kg  0,10 kg  7,03 kg	132 Wp/m.  %/º C %/º C %/º C
Size  CELLS  Quantity  MATERIAL  Frame  Glass  Sheet Encapsulant  Busbars  PV Cells  Sheet Encapsulant  Backsheet  Junction Box  Diodes (By-pass)  Cables (+/-)  Connectors  TOTAL  Temperature coefficient of short  Temperature coefficient of open  Temperature coefficient of maxit  Temperature coefficient of currer	QUANT  1 1 1 5 36 1 1 1 2 2 2 2 TEMPERATU circuit curren circuit voltag mum power nt at maximu ge at maximu perature	x units	900 r  THICKNE 35 r 3,2 r 0,38 r 0,2 r 0,21 r 0,38 r 0,5 r 10 r  MC4-T4 t 35 r	= CO SSS (Z) mm	MPONENTS DESCRIPTION AI 6065-T5 Tempered EVA Cu\$n6 sc-Si EVA TPT Monopolar  900 mm PVC-IP67  CHARACTERISTICS [Isc] [Voc] [Pmpp] [Impp] [VMpp] [NMOT] DERANCES	DENSITY  1,23 kg/m2 8,10 kg/m2 0,40 kg/m2 0,10 kg/m2 0,20 kg/m2 0,40 kg/m2 0,47 kg/m2 0,10 kg/m2 0,10 kg/m2 0,10 kg/m2 0,10 kg/m2 11,16 kg/m2	0,61 m2  0,52 m2  TOTAL WEIGHT  0,75 kg  4,93 kg  0,25 kg  0,10 kg  0,25 kg  0,10 kg  0,20 kg  0,10 kg  7,03 kg  0,10 kg  1,10 kg	132 Wp/m.  %/9 C %/9 C %/9 C %/9 C %/9 C %/9 C
Size CELLS Quantity  MATERIAL Frame Glass Sheet Encapsulant Busbars PV Cells Sheet Encapsulant Busbars PV Cells Sheet Encapsulant Busbars Total Junction Box Diodes (By-pass) Cables (+/-) Connectors TOTAL  Temperature coefficient of short Temperature coefficient of open Temperature coefficient of open Temperature coefficient of curren Temperature coefficient of curren Temperature coefficient of volta Nominal Module Operating Temp Working temperature	QUANT 1 1 1 1 1 5 36 1 1 1 1 2 2 2 2 TEMPERATU circuit curren circuit voltag mum power nt at maximu ge at maximu ge at maximu ge rature - 40 / + 85	x units	900 r  THICKNE 35 r 3,2 r 0,38 r 0,2 r 0,21 r 0,38 r 0,5 r 10 r  MC4-T4 t 35 r	= CO SSS (Z) mm	MPONENTS DESCRIPTION AI 6065-T5 Tempered EVA CUSN6 sc-Si EVA TPT Monopolar  900 mm PVC-IP67  CHARACTERISTICS [Isc] [Voc] [Pmpp] [Impp] [Vmpp] [NMOT] DLERANCES Glass dimension	DENSITY  1,23 kg/m2 8,10 kg/m2 0,40 kg/m2 0,10 kg/m2 0,20 kg/m2 0,47 kg/m2 0,10 kg/m2	0,61 m2  0,52 m2  TOTAL WEIGHT  0,75 kg 4,93 kg 0,25 kg 0,10 kg 0,25 kg 0,10 kg 0,29 kg 0,10 kg 0,20 kg 0,10 kg 7,03 kg  T,03 kg  10,10 kg 0,21 kg 0,21 kg 0,21 kg 0,22 kg 0,23 kg 0,44 kg 0,45 kg 0,5 kg 0,6 kg 0,10 kg 0,10 kg 0,10 kg 0,10 kg 0,10 kg 0,20 kg 0,10 kg 0,20 kg 0,10 kg 0,20 kg 0,10 kg 0,20	132 Wp/m.  %/º C %/º C %/º C %/º C %/º C %/º C EN 125
Size CELLS Quantity  MATERIAL Frame Glass Sheet Encapsulant Busbars PV Cells Sheet Encapsulant Busbars Diodes (By-pass) Cables (+/-) Connectors TOTAL  Temperature coefficient of short Temperature coefficient of open Temperature coefficient of open Temperature coefficient of currer Temperature coefficient of volta Nominal Module Operating Temp Working temperature Dielectric isolation voltage	QUANT  1 1 1 1 5 36 1 1 1 1 2 2 2 2  TEMPERATU circuit current circuit vurdag mum power nt at maximu ge at maximu perature  -40/+85 3000	x units	900 r  THICKNE 35 r 3,2 r 0,38 r 0,2 r 0,21 r 0,38 r 0,5 r 10 r  MC4-T4 t 35 r	= CO SSS (Z) mm	MPONENTS  DESCRIPTION  AI 6065-T5  Tempered EVA  CuSn6 sc-Si EVA  TPT  Monopolar  900 mm  PVC-IP67  CHARACTERISTICS  [Isc] [Voc] [Pmpp] [Impp] [Vmpp] [Vmpp] [NMOT] DIERANCES  Glass dimension Glass symmetryte	DENSITY  1,23 kg/m2 8,10 kg/m2 0,40 kg/m2 0,10 kg/m2 0,20 kg/m2 0,40 kg/m2 0,47 kg/m2 0,10 kg/m2 0,01 kg/m2 0,10 kg/m2 0,10 kg/m2 0,10 kg/m2 0,10 kg/m2 0,05 kg/m2 11,16 kg/m2	0,61 m2  0,52 m2  TOTAL WEIGHT  0,75 kg  4,93 kg  0,05 kg  0,10 kg  0,25 kg  0,10 kg  0,29 kg  0,10 kg  0,02 kg  0,10 kg  7,03 kg  T,03 kg  UINE  0,0814  -0,3910  -0,5141  0,1000  -0,3800  +47 ± 2  < ± 2,5 mm  < ± 3 mm	%/º C %/º C %/º C %/º C %/º C EN 125 EN 125
Size  CELLS  Quantity  MATERIAL  Frame  Glass  Sheet Encapsulant  Busbars  PV Cells  Sheet Encapsulant  Backsheet  Junction Box  Diodes (By-pass)  Cables (+/-)  Connectors  TOTAL  Temperature coefficient of short  Temperature coefficient of open Temperature coefficient of course Temperature coefficient of currer Temperature coefficient of voltage Nominal Module Operating Temp  Working temperature  Dielectric isolation voltage Relative humidity	QUANT  1 1 1 1 5 36 1 1 1 1 2 2 2 2 TEMPERATU circuit current at maximu ge at maximu ge at maximu perature  -40/+85 3000 0/100	x units	900 r  THICKNE 35 r 3,2 r 0,38 r 0,2 r 0,21 r 0,38 r 0,5 r 10 r  MC4-T4 t 35 r	= CO SSS (Z) mm	MPONENTS DESCRIPTION AI 6065-T5 Tempered EVA CUSN6 sc-Si EVA TPT Monopolar  900 mm PVC-IP67  CHARACTERISTICS [Isc] [Voc] [Pmpp] [Impp] [Vmpp] [NMOT] DLERANCES Glass dimension	DENSITY  1,23 kg/m2 8,10 kg/m2 0,40 kg/m2 0,10 kg/m2 0,20 kg/m2 0,40 kg/m2 0,47 kg/m2 0,10 kg/m2 0,01 kg/m2 0,10 kg/m2 0,10 kg/m2 0,10 kg/m2 0,10 kg/m2 0,05 kg/m2 11,16 kg/m2	0,61 m2  0,52 m2  TOTAL WEIGHT  0,75 kg 4,93 kg 0,25 kg 0,10 kg 0,25 kg 0,10 kg 0,29 kg 0,10 kg 0,20 kg 0,10 kg 7,03 kg  T,03 kg  10,10 kg 0,21 kg 0,21 kg 0,21 kg 0,22 kg 0,23 kg 0,44 kg 0,45 kg 0,5 kg 0,6 kg 0,10 kg 0,10 kg 0,10 kg 0,10 kg 0,10 kg 0,20 kg 0,10 kg 0,20 kg 0,10 kg 0,20 kg 0,10 kg 0,20	132 Wp/m.  %/º C %/º C %/º C %/º C %/º C EN 125 EN 125 EN 125
Size CELLS Quantity  MATERIAL Frame Glass Sheet Encapsulant Busbars PV Cells Sheet Encapsulant Backsheet Junction Box Diodes (By-pass) Cables (+/-) Connectors TOTAL  Temperature coefficient of short Temperature coefficient of maxis Temperature coefficient of maxis Temperature coefficient of currer Temperature coefficient of maxis Temperature coefficient of currer Temperature coefficient of currer Temperature coefficient of currer Temperature coefficient of pen Temperature coefficient of currer Temperature coefficient of currer Temperature coefficient of volta Nominal Module Operating Temp Working temperature Dielectric isolation voltage Relative humidity Wind resistance	QUANT  1 1 1 1 5 36 1 1 1 1 1 2 2 2 2 2 2 TEMPERATU  circuit curren circuit voltag mum power nt at maximu ge at maximu	x units unit	900 r THICKNE 35 r 3,2 r 0,38 r 0,21 r 0,38 r 0,5 r 10 r MC4-T4 t 35 r	= CO SSS (Z) mm	MPONENTS  DESCRIPTION  AI 6065-T5 Tempered EVA CUSN6 sc-Si EVA TPT Monopolar  900 mm PVC-IP67  CHARACTERISTICS [Isc] [Voc] [Pmpp] [Impp] [Vmpp] [NMOT]  DLERANCES Glass dimension Glass symmetryte Cell single string of	DENSITY  1,23 kg/m2 8,10 kg/m2 0,40 kg/m2 0,10 kg/m2 0,20 kg/m2 0,40 kg/m2 0,40 kg/m2 0,10 kg/m2 0,10 kg/m2 11,16 kg/m2  MONOCRYSTAL	0,61 m2  0,52 m2  TOTAL WEIGHT  0,75 kg  4,93 kg  0,25 kg  0,05 kg  0,10 kg  0,25 kg  0,20 kg  0,20 kg  0,20 kg  0,20 kg  0,10 kg	132 Wp/m.  %/º C  %/º C  %/º C  %/º C  %/º C  EN 125  EN 125  EN 125  EN 125
Size CELLS Quantity  MATERIAL Frame Glass Sheet Encapsulant Busbars PV Cells Sheet Encapsulant Backsheet Junction Box Diodes (By-pass) Cables (+/-) Connectors TOTAL  Temperature coefficient of short Temperature coefficient of open Temperature coefficient of maxit Temperature coefficient of curre Temperature coefficient of volta Nominal Module Operating Temp Working temperature Dielectric isolation voltage Relative humidity Wind resistance Snow resistance	QUANT  1 1 1 1 5 36 1 1 1 1 2 2 2 2 2 2 TEMPERATU circuit curren circuit voltag mum power nt at maximu ge at maximu ge at maximu perature  - 40 / + 85 3000 0 / 100 2400 5400	x units vnits units units vnits vnit	900 r THICKNE 35 r 3,2 r 0,38 r 0,21 r 0,38 r 0,5 r 10 r MC4-T4 t 35 r	= CO SSS (Z) mm	MPONENTS  DESCRIPTION  AI 6065-T5 Tempered EVA CUSN6 sc-Si EVA TPT Monopolar  900 mm PVC-IP67  CHARACTERISTICS [Isc] [Ivoc] [Pmpp] [Impp] [Vmpp] [NMOT] DLERANCES  Glass dimension Glass symmetryte Cell single string of	DENSITY  1,23 kg/m2 8,10 kg/m2 0,40 kg/m2 0,10 kg/m2 0,20 kg/m2 0,40 kg/m2 0,40 kg/m2 0,10 kg/m2 0,10 kg/m2 11,16 kg/m2  MONOCRYSTAL	0,61 m2  0,52 m2  TOTAL WEIGHT  0,75 kg  4,93 kg  0,25 kg  0,10 kg  0,25 kg  0,29 kg  0,20 kg  0,10 kg  7,03 kg  1,00 kg  1,0	132 Wp/m.  %/º C %/º C %/º C %/º C %/º C EN 125 EN 125 EN 125
Size CELLS Quantity  MATERIAL Frame Glass Sheet Encapsulant Busbars PV Cells Sheet Encapsulant Backsheet Junction Box Diodes (By-pass) Cables (+/-) Connectors TOTAL  Temperature coefficient of short Temperature coefficient of maxis Temperature coefficient of maxis Temperature coefficient of currer Temperature coefficient of maxis Temperature coefficient of maxis Temperature coefficient of currer Temperature coefficient of currer Temperature coefficient of pen Temperature coefficient of pen Temperature coefficient of pen Temperature coefficient of currer Temperature coefficient of volta Nominal Module Operating Temp Working temperature Dielectric isolation voltage Relative humidity Wind resistance	QUANT  1 1 1 1 5 36 1 1 1 1 1 2 2 2 2 2 2 TEMPERATU  circuit curren circuit voltag mum power nt at maximu ge at maximu	x units vnits units units vnits vnit	900 r THICKNE 35 r 3,2 r 0,38 r 0,21 r 0,38 r 0,5 r 10 r MC4-T4 t 35 r	= CO SSS (Z) mm	MPONENTS  DESCRIPTION  AI 6065-T5 Tempered EVA CUSN6 sc-Si EVA TPT Monopolar  900 mm PVC-IP67  CHARACTERISTICS [Isc] [Voc] [Pmpp] [Impp] [Vmpp] [NMOT]  DLERANCES Glass dimension Glass symmetryte Cell single string of	DENSITY  1,23 kg/m2 8,10 kg/m2 0,40 kg/m2 0,10 kg/m2 0,20 kg/m2 0,40 kg/m2 0,40 kg/m2 0,10 kg/m2 0,10 kg/m2 11,16 kg/m2  MONOCRYSTAL	0,61 m2  0,52 m2  TOTAL WEIGHT  0,75 kg  4,93 kg  0,25 kg  0,05 kg  0,10 kg  0,25 kg  0,20 kg  0,20 kg  0,20 kg  0,20 kg  0,10 kg	132 Wp/m.  %/º C  %/º C  %/º C  %/º C  %/º C  EN 125  EN 125  EN 125  EN 125
Size CELLS Quantity  MATERIAL Frame Glass Sheet Encapsulant Busbars PV Cells Sheet Encapsulant Backsheet Junction Box Diodes (By-pass) Cables (+/-) Connectors TOTAL  Temperature coefficient of short Temperature coefficient of open Temperature coefficient of maxit Temperature coefficient of curre Temperature coefficient of volta Nominal Module Operating Temp Working temperature Dielectric isolation voltage Relative humidity Wind resistance Snow resistance	QUANT  1 1 1 1 5 36 1 1 1 1 2 2 2 2 2 2 TEMPERATU circuit curren circuit voltag mum power nt at maximu ge at maximu ge at maximu perature  - 40 / + 85 3000 0 / 100 2400 5400	x units vnits units units vnits vnit	900 r THICKNE 35 r 3,2 r 0,38 r 0,21 r 0,38 r 0,5 r 10 r MC4-T4 t 35 r	= CO SSS (Z) mm THERMAL	MPONENTS  DESCRIPTION  AI 6065-T5 Tempered EVA CUSN6 sc-Si EVA TPT Monopolar  900 mm PVC-IP67  CHARACTERISTICS [Isc] [Ivoc] [Pmpp] [Impp] [Vmpp] [NMOT] DLERANCES  Glass dimension Glass symmetryte Cell single string of	DENSITY  1,23 kg/m2 8,10 kg/m2 0,40 kg/m2 0,10 kg/m2 0,20 kg/m2 0,40 kg/m2 0,40 kg/m2 0,10 kg/m2 0,10 kg/m2 11,16 kg/m2  MONOCRYSTAL	0,61 m2  0,52 m2  TOTAL WEIGHT  0,75 kg  4,93 kg  0,25 kg  0,10 kg  0,25 kg  0,29 kg  0,20 kg  0,10 kg  7,03 kg  1,00 kg  1,0	132 Wp/m.  %/º C  %/º C  %/º C  %/º C  %/º C  EN 125  EN 125  EN 125  EN 125
Size CELLS Quantity  MATERIAL Frame Glass Sheet Encapsulant Busbars PV Cells Sheet Encapsulant Backsheet Junction Box Diodes (By-pass) Caples (+/-) Connectors TOTAL  Temperature coefficient of short Temperature coefficient of open Temperature coefficient of maxi Temperature coefficient of curre Temperature coefficient of curre Temperature coefficient of remperature coefficient of curre Temperature coefficient of volta Nominal Module Operating Temp Working temperature Dielectric isolation voltage Relative humidity Wind resistance Snow resistance	QUANT  1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	x units vnits units units vnits vnit	900 r  THICKNE  35 r  3,2 r  0,38 r  0,21 r  0,38 r  0,5 r  10 r  MC4-T4 t  35 r  FFICIENTS	= CO SSS (Z) mm THERMAL	MPONENTS  DESCRIPTION AI 6065-T5 Tempered EVA CuSn6 sc-Si EVA TPT Monopolar  900 mm PVC-IP67  CHARACTERISTICS [Isc] [Voc] [Pmpp] [Impp] [VMpp] [NMOT] DERANCES Glass dimension Glass symmetrytt Cell single string of Resistance	DENSITY  1,23 kg/m2 8,10 kg/m2 0,40 kg/m2 0,10 kg/m2 0,20 kg/m2 0,40 kg/m2 0,40 kg/m2 0,10 kg/m2 0,10 kg/m2 11,16 kg/m2  MONOCRYSTAL	0,61 m2  0,52 m2  TOTAL WEIGHT  0,75 kg  4,93 kg  0,25 kg  0,10 kg  0,25 kg  0,29 kg  0,20 kg  0,10 kg  7,03 kg  1,00 kg  1,0	132 Wp/m.  132 Wp/m.  %/9 C  %/9 C  %/9 C  %/9 C  EN 125  EN 125  EN 125  IEC 612  3 m/s IEC 612
Size CELLS Quantity  MATERIAL Frame Glass Sheet Encapsulant Busbars PV Cells Sheet Encapsulant Busbars PV Cells Sheet Encapsulant Busbars Total Junction Box Diodes (By-pass) Cables (+/-) Connectors TOTAL  Temperature coefficient of short Temperature coefficient of open Temperature coefficient of maxin Temperature coefficient of current Temperature coefficient of working Temperature coefficient of working Nominal Module Operating Temp Working temperature Dielectric isolation voltage Relative humidity Wind resistance Snow resistance Conductivity at ground	G76  QUANT  1 1 1 1 5 36 1 1 1 1 1 2 2 2 2 2 2  TEMPERATU circuit current at maximu ge at maximu perature  - 40 / + 85 3000 0 / 100 2400 5400 5400 ≤ 0.1	x units unit	900 r THICKNE 35 r 3,2 r 0,38 r 0,21 r 0,21 r 0,38 r 0,5 r 10 r MC4-T4 t 35 r	= CO SSS (Z) mm THERMAL	MPONENTS  DESCRIPTION AI 6065-T5 Tempered EVA CUSN6 sc-Si EVA TPT Monopolar  900 mm PVC-IP67  CHARACTERISTICS [Isc] [Voc] [Pmpp] [Impp] [Vmpp] [IMDP] INMOT] DLERANCES Glass dimension Glass symmetryto Cell single string of Maximum hall recessions	DENSITY  1,23 kg/m2 8,10 kg/m2 0,40 kg/m2 0,10 kg/m2 0,20 kg/m2 0,47 kg/m2 0,10 kg/m2 11,16 kg/m2  MONOCRYSTAL	0,61 m2  0,52 m2  TOTAL WEIGHT  0,75 kg  4,93 kg  0,25 kg  0,10 kg  0,25 kg  0,10 kg  0,29 kg  0,10 kg  0,20 kg  0,10 kg  1,10	132 Wp/m.  %/9 C %/9 C %/9 C %/9 C %/9 C 8/10 EN 125 EN 125 EN 125 IEC 612 3 m/s IEC 612
Size CELLS Quantity  MATERIAL Frame Glass Sheet Encapsulant Busbars PV Cells Sheet Encapsulant Busbars PV Cells Sheet Encapsulant Busbars Frame Glass Sheet Encapsulant Busbars FV Cells Sheet Encapsulant Busbars FV Cells Sheet Encapsulant Busbars FV Cells Sheet Encapsulant Box Diodes (By-pass) Cables (+/-) Connectors TOTAL  Temperature coefficient of short Temperature coefficient of open Temperature coefficient of open Temperature coefficient of currer Temperature coefficient of volta Nominal Module Operating Temp Working temperature Dielectric isolation voltage Relative humidity Wind resistance Snow resistance Conductivity at ground  Application class	QUANT  1 1 1 1 1 5 36 1 1 1 1 1 2 2 2 2  TEMPERATU circuit current at maximu power nt at maximu perature  - 40 / + 85 3000 0 / 100 2400 5400 ≤ 0.1	x  ITY  units unit	900 r THICKNE 35 r 3,2 r 0,38 r 0,21 r 0,21 r 0,38 r 0,5 r 10 r MC4-T4 t 35 r	= CO SSS (Z) mm	MPONENTS DESCRIPTION AI 6065-T5 Tempered EVA CuSn6 sc-Si EVA TPT Monopolar  900 mm PVC-IP67  CHARACTERISTICS [Isc] [Voc] [Pmpp] [Impp] [Vmpp] [Vmpp] [Impp] Umpp] Umppl Sterances Glass dimension Glass symmetryt Cell single string of the service of	DENSITY  1,23 kg/m2 8,10 kg/m2 0,40 kg/m2 0,10 kg/m2 0,20 kg/m2 0,47 kg/m2 0,10 kg/m2 0,01 kg/m2 0,10 kg/m2 0,10 kg/m2 0,10 kg/m2 0,05 kg/m2 11,16 kg/m2  MONOCRYSTAL	0,61 m2  0,52 m2  TOTAL WEIGHT  0,75 kg  4,93 kg  0,25 kg  0,10 kg  0,25 kg  0,10 kg  0,29 kg  0,10 kg  0,20 kg  0,10 kg  1,10	132 Wp/m.  132 Wp/m.  %/9 C  %/9 C  %/9 C  %/9 C  EN 125  EN 125  EN 125  IEC 612  3 m/s IEC 612

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## MANUFACTURER



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PHOTOVOLTAIC MODULES NON STANDARD Series Reference Туре MONOCRYSTALLINE STANDARD GUARANTEES LINEAR PERFORMANCE WARRANTY 100 95 90 85 80 75 70 0 5 10 15 20 25 Years Manufacturing defects 12 years of rated power after 90 % 12 Performance years of operation, 80 % of rated power after years of operation Lifespan 30 years **ENVIRONMENTAL INFORMATION** Solar Hours Peak kWh Petrol/Gas Combined 6 day Coal Irradiation rate 1000 W/ m2 0.961 0.828 0,372 kg/CO2 0,18 kg/CO2 0,48 kWh/ day Avoided **Energy generated** day 0,46 0,40 kWh/ month CO2 month 13,84 11,93 5,36 kg/CO2 175 kWh/ year emissions 168,42 145,11 65,20 kg/CO2 vear CERTIFICATES ISO 9001 Quality management systems ISO 14001 Environmental management systems. ISO 45001 Occupational health and safety management systems Directive 2014/35/EU of the European Parliament and of the Council of 26 February 2014 on the harmonisation of the laws of the Member States relating to the making available on the market of electrical equipment designed for use within certain voltage limits. IEC/EN 61215 Crystalline silicon terrestrial photovoltaic (PV) modules. Design qualification and type approval IEC/EN 61730-1 Photovoltaic (PV) module safety qualification - Part 1: Requirements for construction. IEC/EN 61730-2 Photovoltaic (PV) module safety qualification - Part 2: Requirements for testing IEC/EN 61701 Salt mist corrosion testing of photovoltaic (PV) modules IEC/EN 62716 Photovoltaic (PV) modules - Ammonia corrosion testing. **UNE-EN IEC 62804-1** Photovoltaic (PV) Modules - Test Methods for the detection of potential-induced degradation. Part 1: Crystalline silicone IEC/EN 62790 Junction boxes for photovoltaic modules - Safety requirements and tests. IEC/EN 62852 Connectors for DC-application in photovoltaic systems - Safety requirements and test. UL 1703 Standard for Flat-Plate Photovoltaic Modules and Panels ÚΙ ISO **PACKING** CONTAINER 40'HQ CONTAINER 20' PANELS X PALLET TOTAL TOTAL PANELS X PALLET **PALLETS PALLETS** 22 572 IEC 62759-1 Photovoltaic (PV) modules - Transportation testing - Part 1: Transportation and shipping of module package units **EXPORT INFORMATION** HS Code 85414020 TARiC code 8541409021 REGISTER OF ELECTRICAL AND ELECTRONIC EQUIPMENT PRODUCERS WFFF 7378 Entity ECOASIMELEC DESCRIPTION Silicon cell photovoltaic solar module sc-Si from the manufacturer SOLAR INNOVA, Non Standard series, maximum power (Wp) 80 W, voltage at maximum power (Vmp) 17,21 V, current at maximum power (Imp) 4,65 A, open-circuit voltage (Voc) 22,40 V, short-circuit current (Isc) 5,00 A, efficiency 13,15 %, composed of 36 cells, front layer tempered glass thick 3,2 mm, encapsulant layers of cells of EVA, back layer of TPT, anodized aluminum frame Al 6065-T5, junction box (diodes, cables 4 mm2, 900 mm and connectors MC4-T4), working temperature - 40 / + 85 °C, dimensions 676 x 900 x 35 mm, maximum wind load 2400 Pa, maximum snow load 5400 Pa, weight 7,03 kg. COMMENTS NOTICE The specifications and technical data may be subject to possible modifications without notice. This data sheet are conform to the requirements of the Standard EN 50380.