



REFERENCE	SI-ESF-M-BIPV-BL-RL-		P156-42
ELECTRICAL CHARACTERISTICS			
STC			
Maximum Power	[Pmpp]	Wp	196
Power selection	[Pmpp]	Wp	0/±5
Voltage at Maximum Power	[Vmpp]	Volts	23,48
Current at Maximum Power	[Impp]	Amperes	8,35
Open Circuit Voltage	[Voc]	Volts	27,30
Short Circuit Current	[Isc]	Amperes	9,01
Maximum System Voltage	[Vsyst]	Volts	1500 / 1000
Maximum Series Fuse Rating	[Icf]	Amperes	15
Efficiency	[ηm]	%	15,56
Form Factor	[FF]	%	79,71
ELECTRICAL CHARACTERISTICS			
NMOT			
Maximum Power	[Pmpp]	Wp	144
Voltage at Maximum Power	[Vmpp]	Volts	21,38
Current at Maximum Power	[Impp]	Amperes	6,78
Open Circuit Voltage	[Voc]	Volts	24,95
Short Circuit Current	[Isc]	Amperes	7,31
MECHANICAL CHARACTERISTICS			
Dimensions	(X)	mm	1000
	(Y)	mm	1260
	(Z)	mm	22
	(area)	m2	1,26
Weight		kg	66,55
Front		Material	Glass
		mm	10
Encapsulant		Material	PVB
		mm	0,76
Cells		Type	poly (mc-Si)
		Size	156,75 x 156,75
		Matrix	6 x 7
		Quantity	42
Encapsulant		Material	PVB
		mm	0,76
Rear		Material	Glass
		mm	10
JUNCTION BOX			
Protection	Grade	IP	67
Diodes	Bypass	Quantity	4
		Quantity	2
Cables	(+/ -)	Length	900
		Section	4
		Type	MC-T4
Connectors	(+/ -)	Quantity	2
THERMAL CHARACTERISTICS			
Temperature coefficient of short circuit current α	[Isc]	%/° C	0,0825
Temperature coefficient of open circuit voltage β	[Voc]	%/° C	-0,4049
Temperature coefficient of maximum power γ	[Pmpp]	%/° C	-0,4336
Temperature coefficient of current at maximum power	[Impp]	%/° C	0,1
Temperature coefficient of voltage at maximum power	[Vmpp]	%/° C	-0,38
Nominal Module Operating Temperature	[NMOT]	° C	47±2
TOLERANCES			
Working temperature		° C	-40/+85
Dielectric Isolation Voltage		V/DC	3000
Relative humidity		%	0/+100
Wind resistance		Pa	2400
Mechanical load-bearing capacity		Pa	8000
Maximum hail resistance		∅	35
		m/s	97
Conductivity at ground		Ω	≤ 0,1
Resistance		Ω	≥ 100
CLASSIFICATIONS			
Application		Class	A
Electrical protection		Class	II
Fire resistance		Class	A
Pollution		Degree	1
Material		Group	I
Safety		Factors	1.5
GUARANTEES			
Manufacturing Defects		Years	12
Performance	90% of rated power	Years	12
	80% of rated power	Years	25
DESCRIPTION			
<p>Silicon Cell Photovoltaic Module poly (mc-Si), BIPV-Balconies/Railings series, for architectural integration, from the manufacturer SOLAR INNOVA, maximum power (Wp) 196 W, voltage at maximum power (Vmp) 23,48 V, current at maximum power (Imp) 8,35 A, open circuit voltage (Voc) 27,30 V, short circuit current (Isc) 9,01 A, efficiency 15,56, composed of 42 cells, cells, front layer tempered glass thick 10 mm, encapsulating layers of cells PVB, back layer of tempered glass thick 10 mm, junction box (diodes, cables 4 mm2, 900 mm y connectors MC-T4), working temperature -40/+85 °C, dimensions 1000x1260 mm, resistencia a la carga del viento 2400 Pa, resistencia a la carga de nieve 8000 Pa, weight 66,55 kg.</p>			