



REFERENCE		SI-ESF-M-BIPV-GG-		M125-60			
ELECTRICAL CHARACTERISTICS		STC					
Maximum Power	[Pmpp]	Wp		170	175	180	185
Power selection	[Pmpp]	Wp		0/+5			
Voltage at Maximum Power	[Vmpp]	Volts		30,84	31,20	31,50	31,92
Current at Maximum Power	[Impp]	Amperes		5,52	5,61	5,70	5,79
Open Circuit Voltage	[Voc]	Volts		37,50	37,92	38,22	38,60
Short Circuit Current	[Isc]	Amperes		5,78	5,92	6,03	6,13
Maximum System Voltage	[Vsyst]	Volts		1500 / 1000			
Maximum Series Fuse Rating	[Icf]	Amperes		15			
Efficiency	[η]	%		15,89	16,34	16,76	17,25
Form Factor	[FF]	%		78,54	77,97	77,91	78,11
ELECTRICAL CHARACTERISTICS		NMOT					
Maximum Power	[Pmpp]	Wp		125	129	132	136
Voltage at Maximum Power	[Vmpp]	Volts		28,08	28,41	28,68	29,06
Current at Maximum Power	[Impp]	Amperes		4,48	4,56	4,63	4,70
Open Circuit Voltage	[Voc]	Volts		34,28	34,66	34,93	35,28
Short Circuit Current	[Isc]	Amperes		4,69	4,80	4,89	4,97
MECHANICAL CHARACTERISTICS							
Dimensions	(X)	mm		808			
	(Y)	mm		1326			
	(Z)	mm		8			
	(area)	m ²		1,07			
Weight		kg		18,71			
Front		Material		Glass			
		mm		3,2			
Encapsulant		Material		EVA			
		mm		0,38			
Cells		Type		mono (sc-Si)			
		Size		125 x 125			
		Matrix		6 x 10			
		Quantity		60			
Encapsulant		Material		EVA			
		mm		0,38			
Rear		Material		Glass			
		mm		3,2			
JUNCTION BOX							
Protection	Grade	IP		65			
Diodes	Bypass	Quantity		5			
Cables	(+/ -)	Quantity		2			
		Length		900			
		Section		4			
Connectors	(+/ -)	Type		MC-T4			
		Quantity		2			
THERMAL CHARACTERISTICS							
Temperature coefficient of short circuit current α	[Isc]	%/°C		0,0814			
Temperature coefficient of open circuit voltage β	[Voc]	%/°C		-0,391			
Temperature coefficient of maximum power γ	[Pmpp]	%/°C		-0,5141			
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		∅		28			
		m/s		23			
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							
Silicon Cell Photovoltaic Module mono (sc-Si), BIPV-Glass/Glass series, for architectural integration, from the manufacturer SOLAR INNOVA, maximum power (Wp) 170-185 W, voltage at maximum power (Vmpp) 30,84-31,92 V, current at maximum power (Impp) 5,52-5,79 A, open circuit voltage (Voc) 37,50-38,60 V, short circuit current (Isc) 5,78-6,13 A, efficiency 15,89-17,25 %, composed of 60 cells, front layer tempered glass thick 3,2 mm, encapsulating layers of cells EVA, back layer of tempered glass thick 3,2 mm, junction box (diodes, cables 4 mm ² , 900 mm γ connectors MC-T4), working temperature -40/+85 °C, dimensions 808x1326 mm, maximum wind load 2400 Pa, maximum snow load 8000 Pa, weight 18,71 kg.							