

CAIET DE SARCINI

privind specificațiile tehnice a panourilor fotovoltaice

Conform cerințelor se propune de a procura 114 panouri fotovoltaice mono cristaline cu următorii parametri tehnici:

Mechanical Parameters		
Cell orientation	132(6x22)	
Junction Box	IP68, three diodes	
Output Cable	4 mm ² , -200 mm/ [±] 1400 mm length can be customized	
Glass	Single glass, 3,2 mmcoated tempered glass	
Frame	Anodized aluminium alloy frame	
Weight	26,0 kg	
Dimension	2094x1134x35 mm	
Electrical Characteristics		
Testing Condition	STC	NOCT
Maximum Power (Pmax/W)	500	373.7
Open Circiut Voltage (Voc/V)	45.55	42.83
Short Circuit Current (Isc/A)	13.9	11.24
Voltage at Maximum Power (Vmp/V)	38.38	35.65
Current at Maximum Power (Imp/A)	13.03	10.48
Module Efficiency (%)	21,1	
Operating Parameters		
Operational Temperature	-40°C - +85°C	
Power Output Tolerance	0-3%	
Voc and Isc Tolerance	± 3%	
Maximum System Voltage	DC1500V (IEC/UL)	
Maximum Series Fuse Rating	25A	
Nominal Operating Cell Temperature	45±2°C	
Protection Class	ClassII	
Fire Rating	UL type 1 or 2 IEC Class C	
Mechanical Loading		
Front Side Maximum Static Loading	5400 Pa	
Read Side Maximum Static Loading	2400 Pa	
Hailstone Test	25 mm Hailstone at the speed of 23 m/s	
Temperature Ratings (STC)		
Temperature Coefficient of Isc	+ 0.050 %/°C	
Temperature Coefficient of Voc	- 0.265 %/°C	
Temperature Coefficient of Pmax	- 0.340 %/°C	

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