



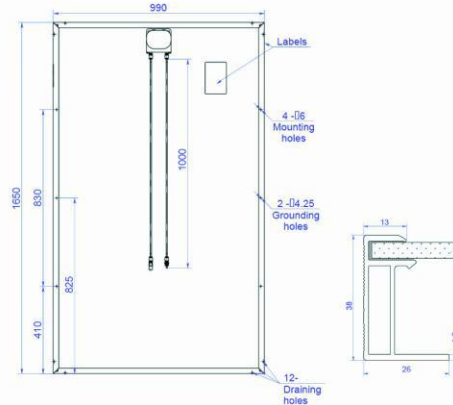
MONOCrystalline Solar Panel

liNa Solar Panels - Bulgarian Made



Physical Characteristics

Cells per Module	60 Cells (6x10)
Cell Type	Mono-crystalline Silicon
Module Dimension (L x W x H)	1650x990x38 (mm)
Module Weight	18,5Kg
Frame	Anodized Aluminum (Black frame available upon request)
Front Glass	3.2mm Tempered Glass
Junction Box	IP66 / IP65, 4mm ²
Cable Length	1000mm



Electrical Characteristics

Item	Unit	LS-285W	LS-290W	LS-295W	LS-300W	LS-305W
Max. Power (Pmax)	W	285	290	295	300	305
Open circuit voltage (Voc)	V	39,8	40,60	41,00	41,6	42,0
Short circuit current (Isc)	A	9,2	9,2	9,3	9,3	9,4
Max. Power voltage (Vmp)	V	32,95	33,35	33,38	34,25	34,60
Max. Power current (Imp)	A	8,65	8,70	8,74	8,77	8,82
Module efficiency	%	17,45	17,75	18,06	18,37	18,67
Power Tolerance	W	0~+4,99				

*STC (Standard Test Condition): 1000W/m², AM 1.5, 25°C

Permissible operating conditions

Temperature range	-40 to +85 °C
Maximum system voltage	1,000V DC(IEC), 600V DC(UL)
Maximum surface load cap	5,400Pa
Maximum hailstone impact (diameter / velocity)	25mm / 23m/s

*NOCT (Nominal Operating Cell Temperature): 800W/m², 20°C, wind speed 1m/s

Thermal Characteristics

Rating	Unit	Value	
NOCT	°C	45,3±2	
Temperature coefficient	Isc	%/°C	+ 0,06
	Voc	%/°C	- 0,38
	P _{MAX}	%/°C	- 0,42

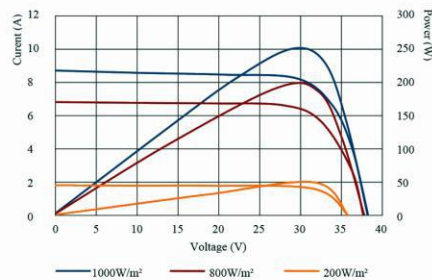
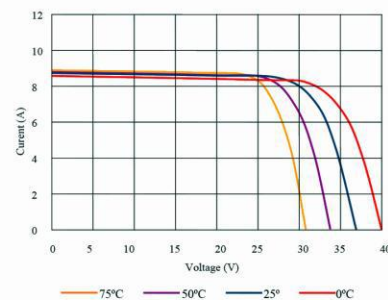
Packing Specifications

Packing box dimension (L x W x H)	1670x800x1150 (mm)
Number of modules per pallet	20

WARRANTY

- 10 YEARS** Manufacturing warranty
- 10 YEARS** 90% Power Output warranty
- 25 YEARS** 80% Power Output warranty

I-V Curves



QUALIFICATIONS AND CERTIFICATES

