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# **EnergyPal**

## **Solar Panel Guide Specification Data Sheet**

**Lina Energy Solutions**

**LS1 260-280W**

**LS1-275W**

Also available on the web at  
[EnergyPal.com/lina-energy-solutions-solar-panels/ls1-275w](http://EnergyPal.com/lina-energy-solutions-solar-panels/ls1-275w)



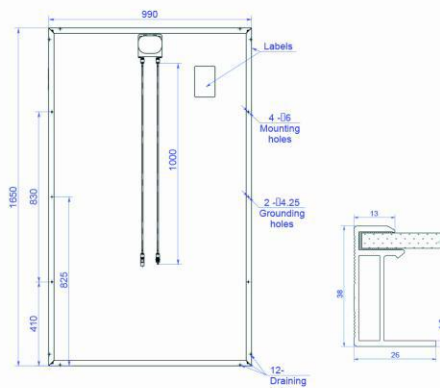
## MONOCrystalline Solar Panel

liNa Solar Panels - Bulgarian Made



### Physical Characteristics

Cells per Module	60 Cells (6x10)
Cell Type	Multi-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 <sup>2</sup>
Cable Length(+/-)	1000mm



### Electrical Characteristics

Item	Unit	LS1-260W	LS1-365W	LS1-270W	LS-275W	LS1-280W
Max. Power (Pmax)	W	260	265	270	275	280
Open circuit voltage (Voc)	V	38,28	38,40	38,6	38,8	39,1
Short circuit current (Isc)	A	8,7	8,73	8,95	9,15	9,31
Max. Power voltage (Vmp)	V	30,99	31,25	31,3	31,50	31,68
Max. Power current (Imp)	A	8,39	8,48	8,63	8,73	8,84
Module efficiency	%	16,22	16,34	16,53	16,84	17,14
Power Tolerance	W	0~+4,99				

\*STC (Standard Test Condition): 1000W/m<sup>2</sup>, 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

### Thermal Characteristics

Rating	Unit	Value	
NOCT	°C	45,3 ±2	
Temperature coefficient	Isc	%/°C	+ 0,05
	Voc	%/°C	- 0,30
	P <sub>MAX</sub>	%/°C	- 0,41

\*NOCT (Nominal Operating Cell Temperature): 800W/m<sup>2</sup>, 20° C, wind speed 1m/s

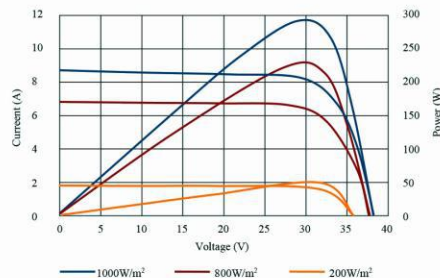
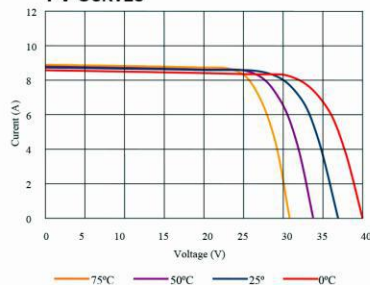
### Packing Specifications

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

