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Solar Panel Guide Specification Data Sheet

**Lina Energy Solutions
LS 285-305W
LS-305W**

Also available on the web at
EnergyPal.com/lina-energy-solutions-solar-panels/lis-305w



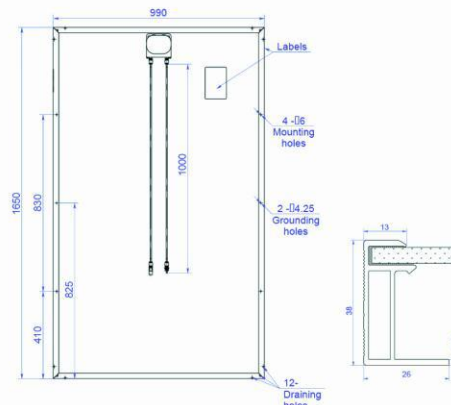
MONOCrystalline Solar Panel

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 |

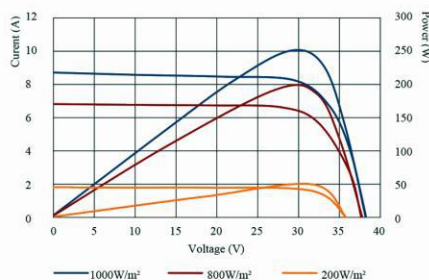
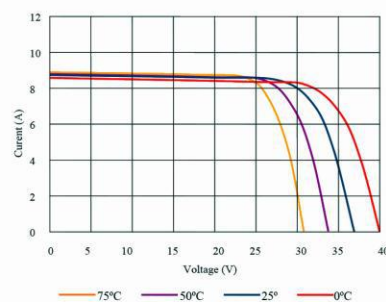
Packing Specifications

| | |
|-----------------------------------|--------------------|
| 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

