

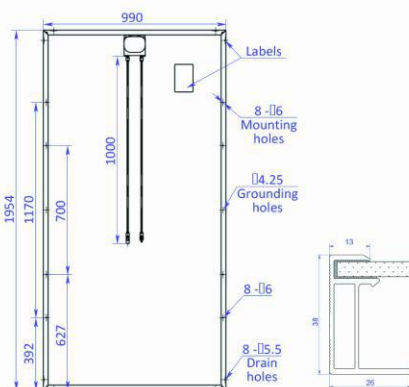


MONOCrystalline Solar Panel

liNa Solar Panels - Bulgarian Made

Physical Characteristics

Cells per Module	72 Cells (6x12)
Cell Type	Multi-crystalline Silicon
Module Dimension (L x W x H)	1954x990x38 (mm)
Module Weight	21kg
Frame	Anodized Aluminum (Black frame available upon request)
Front Glass	4 mm Tempered Glass
Junction Box	IP66/IP65, 4mm ²
Cable Length	1000mm



Electrical Characteristics

Item	Unit	LE1-320W	LE1-325W	LE1-330W	LE1-335W	LE1-340W
Max. Power (P _{max})	W	320	325	330	335	340
Open circuit voltage (V _{oc})	V	45,50	46,00	46,20	46,60	46,7
Short circuit current (I _{sc})	A	8,76	8,96	9,13	9,23	9,32
Max. Power voltage (V _{mp})	V	38,00	38,06	38,11	38,25	38,42
Max. Power current (I _{mp})	A	8,42	8,54	8,66	8,76	8,85
Module efficiency	%	16,54	16,80	17,06	17,32	17,58
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	I _{sc}	%/°C + 0,05
	V _{oc}	%/°C - 0,30
	P _{MAX}	%/°C - 0,41

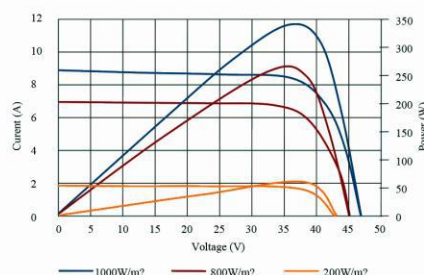
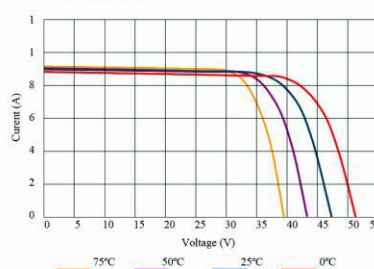
Packing Specifications

Packing box dimension (L x W x H)	1980x800x1150 (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

