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Solar Panel Guide Specification Data Sheet

Loong Solar Tech Co., Limited

LNG 85W - 90W

LNG 85W

Also available on the web at
EnergyPal.com/loong-solar-tech-co-limited-solar-panels/lng-85w

85W and 90W Photovoltaic modules

LNG 85W – 90W



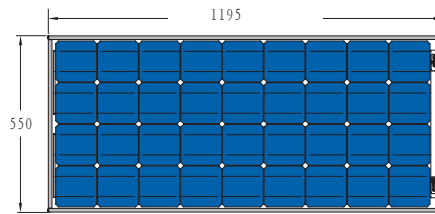
LOONG SOLAR

Electrical characteristics

	85W	90W
	STC 1000W/m ²	STC 1000W/m ²
Maximum power (P _{max})	85W	90W
Voltage at P _{max} (V _{mp})	17.8V	17.9V
Current at P _{max} (I _{mp})	4.78A	5.03A
Short circuit current (I _{sc})	5.13A	5.31A
Open circuit voltage (V _{oc})	22.4V	22.6V
Module efficiency	13.1%	13.9%
Tolerance P _{max}	-3/+3%	-3/+3%
Nominal voltage	12V	12V
Temperature coefficient of I _{sc}	0.105%/ °C	
Temperature coefficient of V _{oc}	-0.360%/ °C	
Temperature coefficient of P _{max}	-0.45%/ °C	
NOCT	47±2° C	
Maximum series fuse rating	20A	
Application class	Class A (according to IEC 61730:2007)	
Maximum system voltage	700V	

1: Values at Standard Test Conditions (STC): 1000W/m irradiance, AML 5 solar spectrum and 25°C module temperature

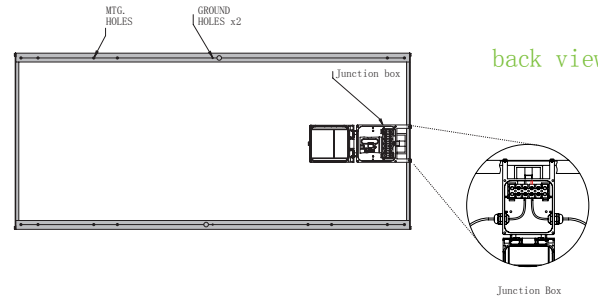
2: Nominal Operation Cell Temperature: Module operation temperature at 800W/m irradiance, 20°C air temperature, 1m/s wind speed



front view



side view



back view

Dimensions in mm .

Mechanical characteristics

Solar cells	36 monocrystalline silicon cells (125x125mm) in series
Front cover	High transmission 3.2mm glass
Encapsulant	EVA
Back cover	White polyester
Frame	Silver anodized aluminum
Junction box	IP65
Dimensions	1195x550x30mm
Weight	8kg

Warranty

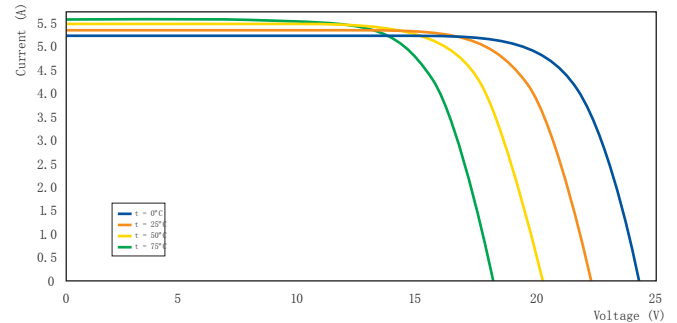
- Free from defects in materials and workmanship for 5 years
- 90% min. power output over 10 years
- 80% min. power output over 25 years

Contact:

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Dependence of the temperature (LNG 85W)



Dependence of the irradiance (LNG 85W)

