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EnergyPal

Solar Panel Guide Specification Data Sheet

Loong Solar Tech Co., Limited

LNG 170W - 185W

LNG 170W

Also available on the web at
EnergyPal.com/loong-solar-tech-co-limited-solar-panels/lng-170w



LOONG SOLAR

LOONG SOLAR

Discover our energy

Contact:

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170, 175, 180 and 185W photovoltaic modules
LNG 72 cell, monocrystalline

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Designed to capture more of the sun

Our products incorporate a number of unique features to ensure highest production yields and make solar your brightest investment ever.



High Transmission Glass
Anti-reflective coated glass delivers up to 4% more energy than standard glass.



Reliable electrical connections



Enhanced cell protection
Better cell protection thanks to robust frame and durable materials.

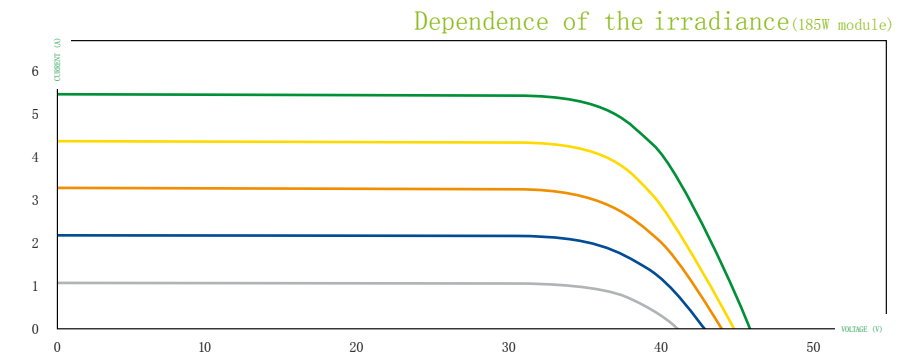
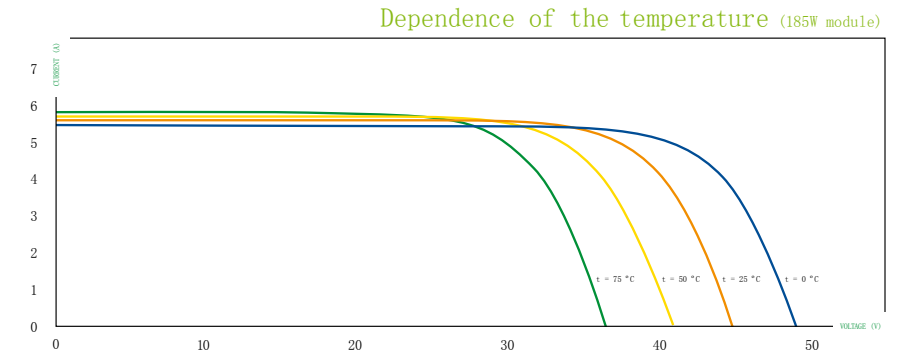
Also available in black.
Module appearance may vary.

170, 175, 180 and 185W photovoltaic modules
 LNG 72 cell, monocrystalline panel



LOONG SOLAR

Electrical characteristics	170W	175W	180W	185W
	STC 1000W/m ²	STC 1000W/m ²	STC 1000W/m ²	STC 1000W/m ²
Maximum power (P _{max})	170W	175W	180W	185W
Voltage at P _{max} (V _{mp})	35.6V	35.4V	35.8V	36.2V
Current at P _{max} (I _{mp})	4.80A	4.94A	5.03A	5.11A
Short circuit current (I _{sc})	5.35A	5.45A	5.58A	5.58A
Open circuit voltage (V _{oc})	43.6V	43.6V	43.6V	44.7V
Module efficiency	13.6%	14.0%	14.4%	14.8%
Tolerance P _{max}	165 dia. cell -3/+3%	-3/+3%	-3/+3%	-3/+3%
Nominal voltage	24V	24V	24V	24V
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 (according to IEC 61730:2007)			Class A	
Maximum system voltage			1000V (IEC 61730:2007)	
1: Values at Standard Test Conditions (STC): 1000W/m irradiance, AM1.5 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				



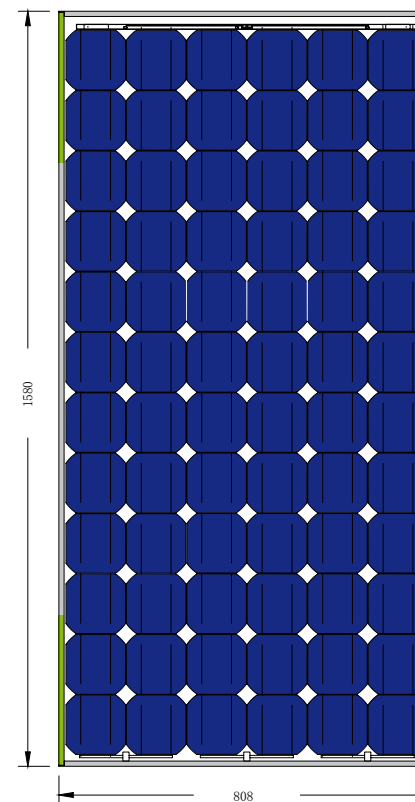
Mechanical characteristics

Solar cells	72 monocrystalline 5" silicon cells (125x125mm) in series
Front cover	High transmission 3.2mm glass
Encapsulant	EVA
Back cover	White polyester
Frame	Silver anodized aluminum
Junction box	Potted (IP 67)
Output cables	4mm ² cable with latching MC4 connectors. 900mm
Dimensions	1580x808x35mm
Weight	15kg

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

front view



side view back view

