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EnergyPal

Solar Panel Guide Specification Data Sheet

Loong Solar Tech Co., Limited

LNG 215W - 235W

LNG 220W

Also available on the web at
EnergyPal.com/loong-solar-tech-co-limited-solar-panels/lng-220w



LOONG SOLAR

LOONG SOLAR

Discover our energy

Contact:

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www.lngsol.com

174 Minzhu S.Rd Yunlong District Xuzhou Jiangsu China

215, 220, 225, 230 and 235W photovoltaic modules
LNG 60 cell, polycrystalline



Also available in black.
Frame with extended load capability in end mounting
also available under request.

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



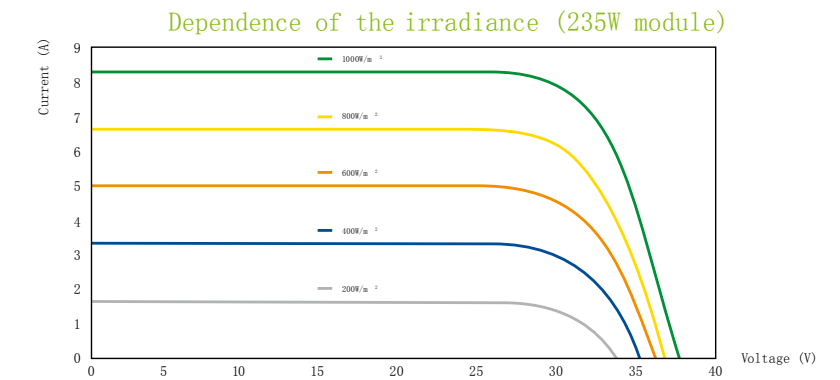
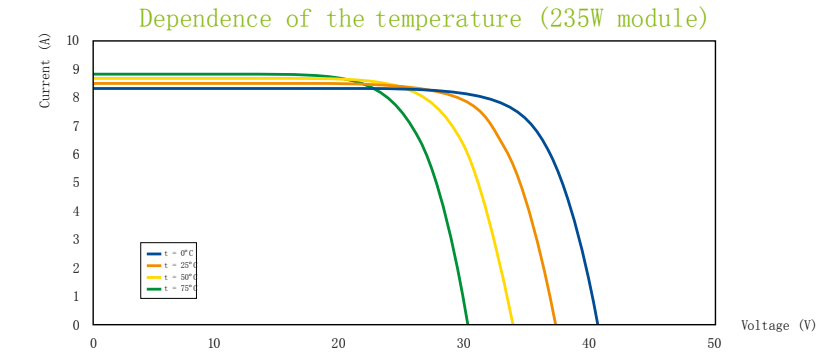
Enhanced cell protection
Better cell protection thanks to robust frame and durable materials.

215, 220, 225, 230 and 235W photovoltaic modules
 LNG 60 cell. polycrystalline



LOONG SOLAR

Electrical characteristics	215W	220W	225W	230W	235W
	STC 1000W/m ²	STC 1000W/m ²	STC 1000W/m ²	STC 1000W/m ²	STC 1000W/m ²
Maximum power (P _{max})	215W	220W	225W	230W	235W
Voltage at P _{max} (V _{mp})	29.1V	28.9V	29.1V	29.1V	29.8V
Current at P _{max} (I _{mp})	7.4A	7.6A	7.70A	7.90A	7.89A
Short circuit current (I _{sc})	8.10A	8.20A	8.30A	8.40A	8.48A
Open circuit voltage (V _{oc})	36.5V	36.6V	36.6V	36.7V	37.2V
Module efficiency	12.9%	13.2%	13.5%	13.8%	14.1%
Tolerance P _{max}	-3/+3%	-3/+3%	-3/+3%	-3/+3%	-3/+5%
Nominal voltage	20V	20V	20V	20V	20V
					<5% reduction (efficiency 13.4%)
					8.48A
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, AML5 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					

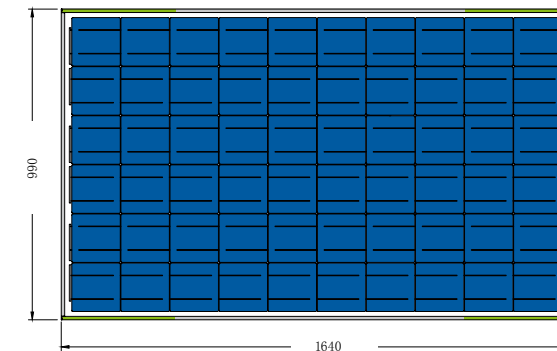


Mechanical characteristics

Solar cells	60 polycrystalline 6" silicon cells (156x156mm) in series
Front cover	High transmission 3.2mm glass
Encapsulant	EVA
Back cover	White or black polyester
Frame	Silver anodized aluminum
Junction box	Potted (IP 67)
Output cables	4mm ² cable with latching MC4 connectors. cable lengths 900mm
Dimensions	1640x990x50mm
Weight	20kg

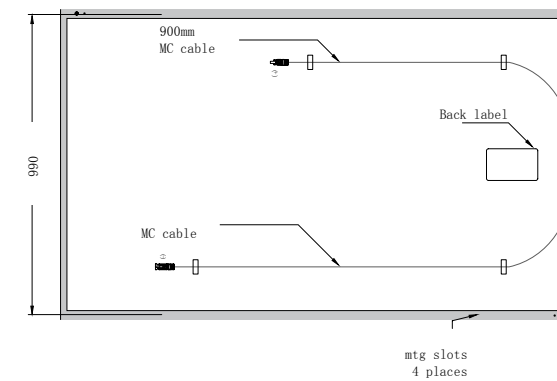
Warranty

- 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

JUNCTION BOX DETAIL
(with wire-hold feature)

Dimensions in mm