

# BUFFALO

BIFFACIAL  
FULL CELL (URE182)



**72 CELL**  
Monocrystalline Perc

**19.9%**  
Maximum Efficiency

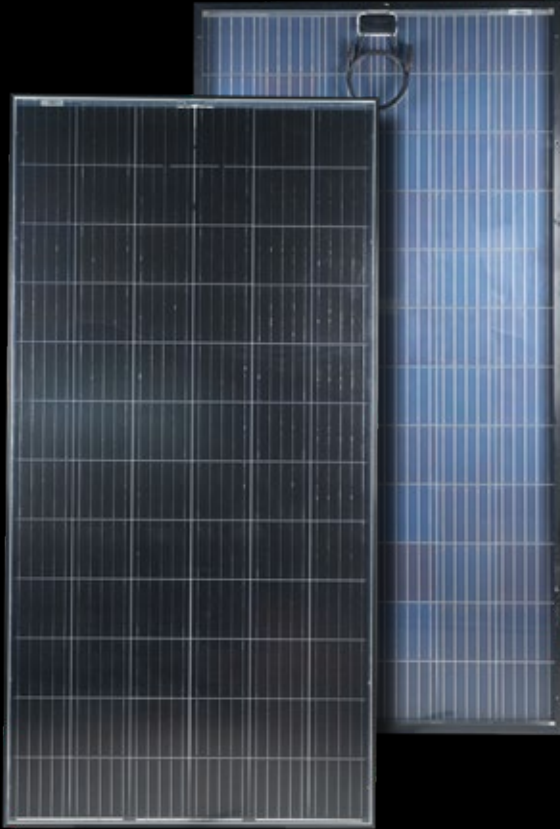
SQFL500M-72Y  
SQFL505M-72Y  
SQFL510M-72Y

SQFL515M-72Y  
SQFL520M-72Y



**390-400 W**  
Power Output Range

**+5W**  
Power Tolerance



## Well-rounded design with versatile and excellent performance

- 1500 VDC system voltage

## Design promotes efficiency & savings

- Passivated Emitter and Rear Cell (PERC) technology
- Low first-year power degradation
- PID Resistant
- Convert more sunlight into electricity over a given area to provide more savings over time

## Highly reliable quality

- Comprehensive in-house tests
- 100% EL inspection ensuring defects-free module
- Manufactured with cutting edge technology to increase product output consistency

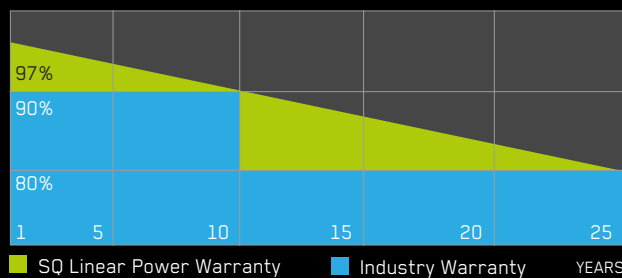
## Certified to withstand the most challenging environmental conditions

- 2400 Pa negative load, 5400 Pa positive load
- Salt Mist and Ammonia Corrosion Resistant

## LINEAR POWER WARRANTY

**10 years**  
product warranty

**25 years**  
linear power output warranty



## COMPREHENSIVE PRODUCTS & SYSTEM CERTIFICATES

ISO 9001:2015  
ISO 14001:2015  
OHSAS 18001:2007

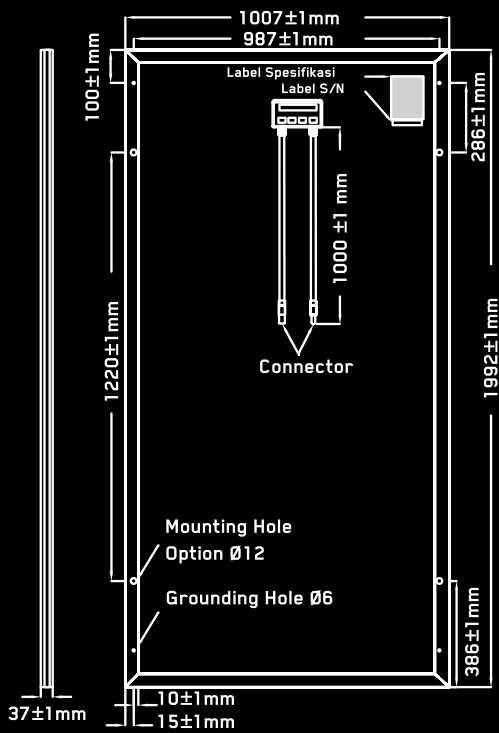
Quality Management System  
Environmental Management System  
Occupational Health & Safety Management System

IEC 61215:2016 /  
IEC 61730:2016

Indonesian National Standard (SNI)  
Local Content Level (TKDN)



SOLAR QUEST, established in 2019, is a trademark by PT. Deltamas Solusindo. The company is devoted to be a total solution provider for energy efficiency and solar-powered clean energy generation. SOLAR QUEST is the national PV module from Indonesia with superior quality; providing reliability and profitability the customers rely on. With focus on solar-powered Renewable Energy expansion, the company encourages communities into the era of clean energy; in the same time collaborating with distributors, installers, developers, and other partners to distribute its solution to residential, commercial and utility base customers locally and internationally.



## MECHANICAL DATA

Module Dimensions	2287 x 1139 x 37 mm
Weight	25 kg
Solar Cells	Monocrystalline PERC 158.75 x 158.75 mm
Cell Arrangement	3 Strings of 24 Monocrystalline PERC Cells
Glass	3.2 mm Thick Anti-Reflection Solar Glass
Backsheet	Highly Resistant Polyester
Frame	Clear Anodic Coated Aluminium
J-Box	IP68
Cables	1 x 4.0 mm <sup>2</sup> Solar Cable
Connectors	ST4 or Factory-Installed Compatible

### ELECTRICAL DATA at STC\*

	UNIT	SQFL500M-72Y	SQFL505M-72Y	SQFL510M-72Y	SQFL515M-72Y	SQFL520M-72Y
Nominal Power - P <sub>MAX</sub>	Wp	500	505	510	515	520
Nominal Power Voltage - V <sub>MP</sub>	V	39.67	40.07	40.46	40.86	41.26
Nominal Power Current - I <sub>MP</sub>	A	12.60	12.60	12.60	12.60	12.60
Open Circuit Voltage - V <sub>oc</sub>	V	49.54	49.54	49.54	49.54	49.54
Open Circuit Voltage - I <sub>sc</sub>	A	13.23	13.23	13.23	13.23	13.23
Module Efficiency	%	19.19	19.39	19.58	19.77	19.96

\*STC: Standard Text Conditions (Light Spectrum AM 1.5, Irradiance 1000 W/m<sup>2</sup>, Temperature 25°C)

### ELECTRICAL DATA at NMOT\*\*

Nominal Power - P <sub>MAX</sub>	Wp	400	404	408	412	416
Nominal Power Voltage - V <sub>MP</sub>	V	39.67	40.07	40.46	40.86	41.26
Nominal Power Current - I <sub>MP</sub>	A	10.08	10.08	10.08	10.08	10.08
Open Circuit Voltage - V <sub>oc</sub>	V	39.63	39.63	39.63	39.63	39.63
Open Circuit Voltage - I <sub>sc</sub>	A	10.58	10.58	10.58	10.58	10.58

\*\*NMOT: Nominal Module Operation Temperature (Light Spectrum AM 1.5, Irradiance 800 W/m<sup>2</sup>, Temperature 20°C)

### TEMPERATURE RATINGS

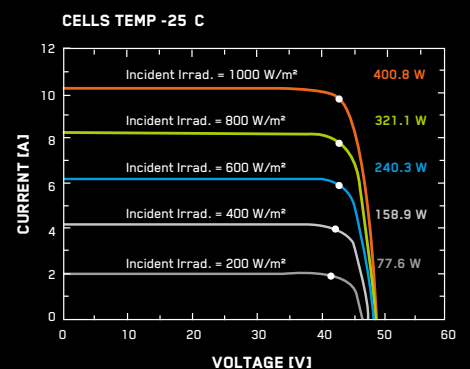
Temperature Coefficient of P <sub>MAX</sub>	-0.38% / °C
Temperature Coefficient of V <sub>OC</sub>	-0.36% / °C
Temperature Coefficient of I <sub>SC</sub>	0.07% / °C

(DO NOT connect Fuse in Combiner Box with 2 or more strings in parallel connection)

### MAXIMUM RATINGS

Operational Temperature	-40 ~ +85°C
Maximum System Voltage	1500 VDC (IEC) 1500 VDC (UL)
Max Series Fuse Rating	20 A

### I-V CURVE AT STANDARD TEXT CONDITION



### WARRANTY

10-YEAR Product Warranty

25-YEAR Linear Power Output Warranty