

# BUFFALO

SQF180M-36  
SQF185M-36  
SQF190M-36

SQF195M-36  
SQF200M-36



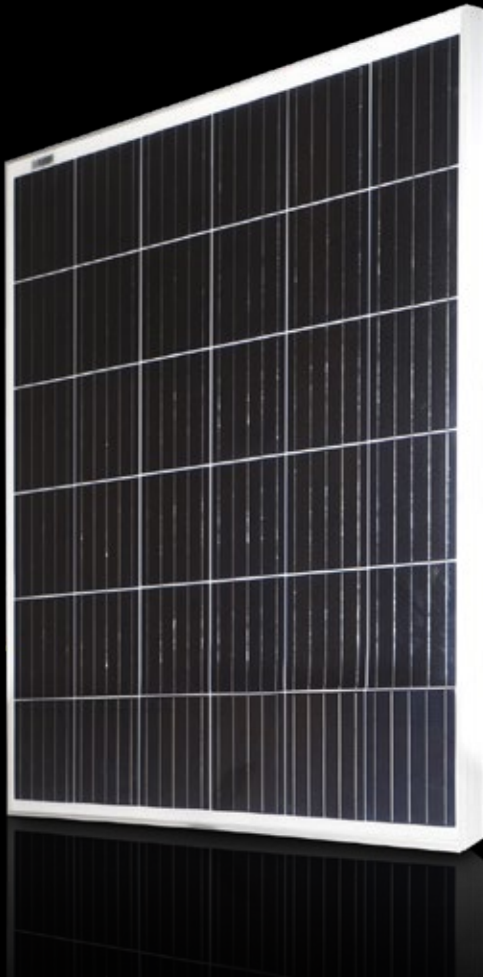
**36 CELL**  
Monocrystalline PERC

**19.4%**  
Maximum Efficiency



**180-200 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

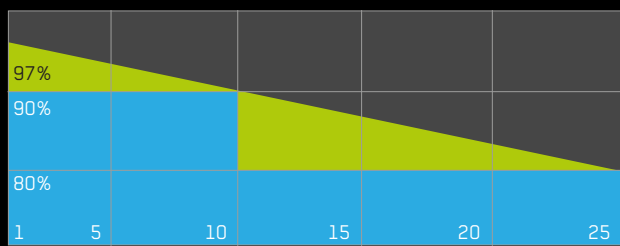
## LINEAR POWER WARRANTY

**10 years**

product warranty

**25 years**

linear power output warranty



■ SQ Linear Power Warranty

■ Industry Warranty

YEARS

## 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 /

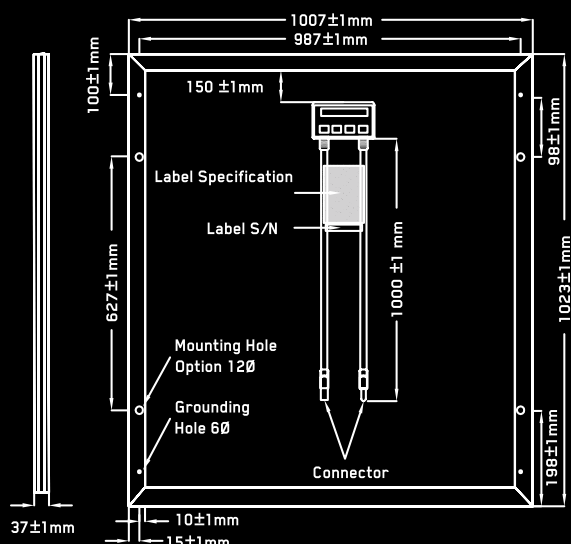
IEC 61730:2016

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

<b>Module Dimensions</b>	1023 x 1007 x 37 mm
<b>Weight</b>	12 kg
<b>Solar Cells</b>	Monocrystalline PERC 158.75 x 158.75 mm
<b>Cell Arrangement</b>	3 Strings of 12 Monocrystalline PERC Cells
<b>Glass</b>	3.2 mm Thick Anti-Reflection Solar Glass
<b>Backsheet</b>	Highly Resistant Polyester
<b>Frame</b>	Clear Anodic Coated Aluminium
<b>J-Box</b>	IP68
<b>Cables</b>	1 x 4.0 mm <sup>2</sup> Solar Cable
<b>Connectors</b>	MC4 or Factory-Installed Compatible

ELECTRICAL DATA at STC*	UNIT	SQF180M-36	SQF185M-36	SQF190M-36	SQF195M-36	SQF200M-36
Nominal Power - P <sub>MAX</sub>	Wp	180	185	190	195	200
Power Tolerance	W	+5	+5	+5	+5	+5
Nominal Power Voltage - V <sub>MP</sub> (±0.5%)	V	19.10	19.50	19.90	20.12	20.50
Nominal Power Current - I <sub>MP</sub> (±0.5%)	A	9.59	9.59	9.59	9.76	9.76
Open Circuit Voltage - V <sub>OC</sub> (±0.5%)	V	24.08	24.08	24.08	24.60	24.60
Short Circuit Current - I <sub>SC</sub> (±0.5%)	A	10.16	10.16	10.16	10.30	10.30
Module Efficiency	%	17.5	18.0	18.4	18.9	19.4

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

ELECTRICAL DATA at NMOT**	UNIT	SQF180M-36	SQF185M-36	SQF190M-36	SQF195M-36	SQF200M-36
Nominal Power - P <sub>MAX</sub>	Wp	144	148	152	156	160
Power Tolerance	W	+5	+5	+5	+5	+5
Nominal Power Voltage - V <sub>MP</sub> (±0.5%)	V	18.78	19.30	19.82	20.12	20.34
Nominal Power Current - I <sub>MP</sub> (±0.5%)	A	7.67	7.67	7.67	7.76	7.87
Open Circuit Voltage - V <sub>OC</sub> (±0.5%)	V	19.27	19.27	19.27	19.55	19.73
Short Circuit Current - I <sub>SC</sub> (±0.5%)	A	8.13	8.13	8.13	8.20	8.30
NMOT	°C	43 <sub>+2</sub>	43 <sub>+2</sub>	43 <sub>+2</sub>	43 <sub>+2</sub>	43 <sub>+2</sub>

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

## TEMPERATURE RATINGS

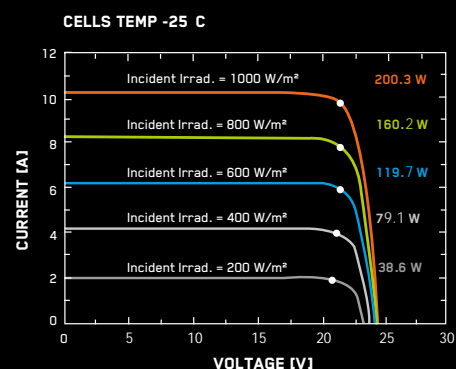
Temperature Coefficient of P <sub>MAX</sub>	-0.38% / °C
Temperature Coefficient of V <sub>OC</sub>	-0.36% / °C
Temperature Coefficient of I <sub>SC</sub>	0.07% / °C

(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 TEST CONDITION



## WARRANTY

**10-YEAR** Product Warranty

**25-YEAR** Linear Power Output Warranty

\*Data sheets are subject to change without notice.