

GRIFFIN

SQG435M8-120HC SQG450M8-120HC
SQG440M8-120HC SQG455M8-120HC
SQG445M8-120HC



120 CELL

Monocrystalline PERC

21.1%

Maximum Efficiency

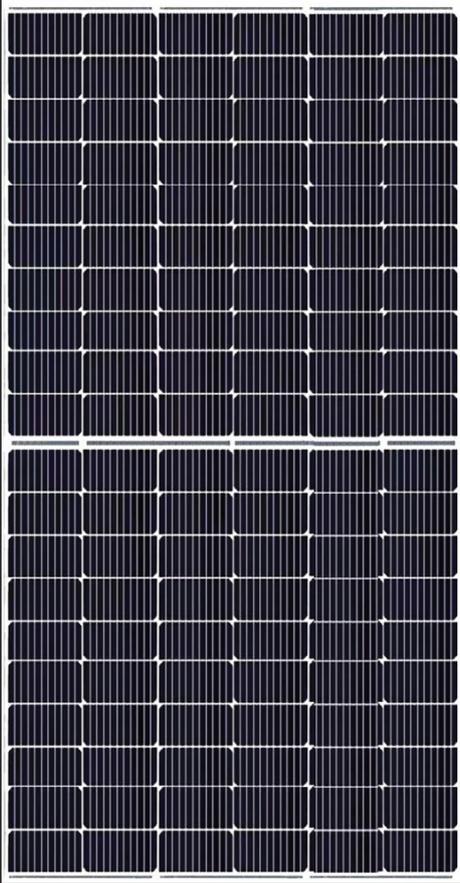


435-455 W

Power Output Range

+5W

Power Tolerance



Well-rounded design with versatile and excellent performance

- 1500 VDC system voltage

Design promotes efficiency & savings

- 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

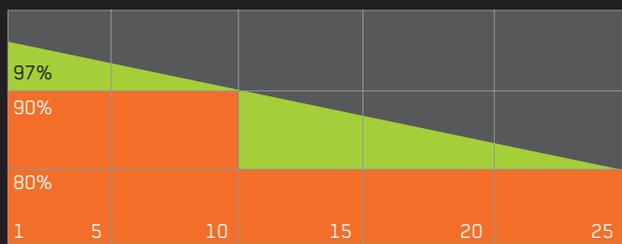
LINEAR POWER WARRANTY

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 /

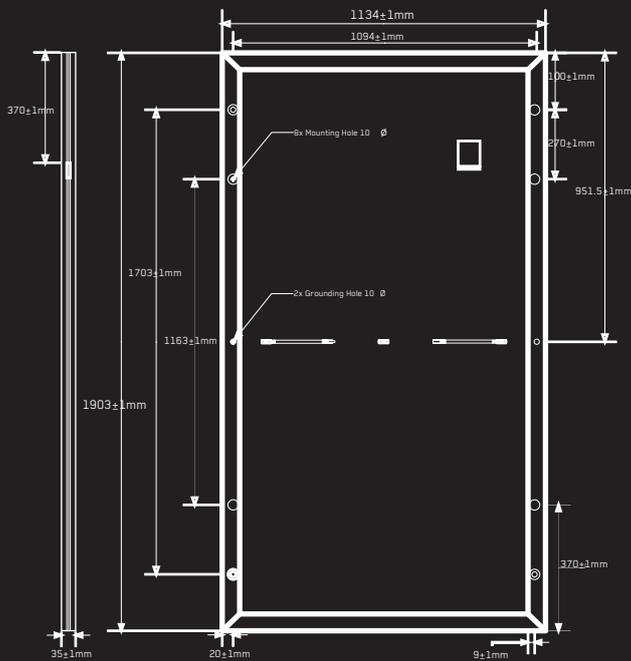
IEC 61730:2016

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

Module Dimensions	1134 x 1903 x 35 mm
Weight	24 kg
Solar Cells	Monocrystalline Passivated Emitter and Rear Cell (PERC) Technology
Cell Arrangement	2 x 3 Strings of 20 Monocrystalline PERC
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 ² Solar Cable
Connector	MC4 or Factory-Installed Compatible

ELECTRICAL DATA at STC*

	UNIT	SQG435M8-120HC	SQG440M8-120HC	SQG445M8-120HC	SQG450M8-120HC	SQG455M8-120HC
Nominal Power - P _{MAX}	Wp	435	440	445	450	455
Power Tolerance	W	±5	±5	±5	±5	±5
Nominal Power Voltage - V _{MP} (± 0.5%)	V	35.00	35.40	35.60	35.90	36.40
Nominal Power Current - I _{MP} (± 0.5%)	A	12.43	12.44	12.50	12.54	12.50
Open Circuit Voltage - V _{OC} (± 0.5%)	V	42.80	43.20	43.30	43.60	44.10
Short Circuit Current - I _{SC} (± 0.5%)	A	13.21	13.25	13.35	13.40	13.41
Module Efficiency	%	20.2	20.4	20.6	20.8	21.1

*STC: Standard Test Conditions (Light Spectrum AM 1.5, Irradiance 1000 W/m², Temperature 25°C)

ELECTRICAL DATA at NMOT**

Nominal Power - P _{MAX}	Wp	348	352	356	360	364
Power Tolerance	W	±5	±5	±5	±5	±5
Nominal Power Voltage - V _{MP} (± 0.5%)	V	34.34	34.66	34.93	35.19	35.44
Nominal Power Current - I _{MP} (± 0.5%)	A	10.14	10.15	10.19	10.23	10.27
Open Circuit Voltage - V _{OC} (± 0.5%)	V	32.50	32.59	32.69	32.78	32.88
Short Circuit Current - I _{SC} (± 0.5%)	A	10.66	10.67	10.78	10.80	10.83
NMOT	°C	43 ±2	43 ±2	43 ±2	43 ±2	43 ±2

**NMOT: Nominal Module Operation Temperature (Light Spectrum AM 1.5, Irradiance 800 W/m², Temperature 20°C)

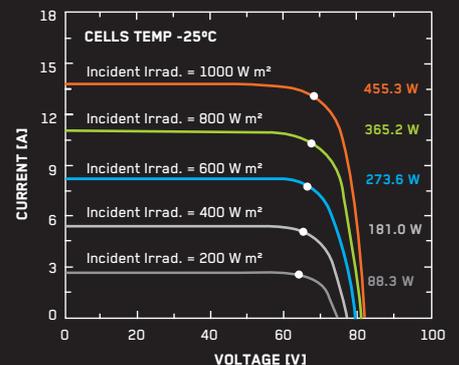
TEMPERATURE RATINGS

Temperature Coefficient of P _{MAX}	-0.38% / °C
Temperature Coefficient of V _{OC}	-0.36% / °C
Temperature Coefficient of I _{SC}	0.07% / °C

MAXIMUM RATINGS

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

I-V CURVE AT STANDARD TEXT CONDITION



WARRANTY

10-YEAR Product Warranty

25-YEAR Linear Power Output Warranty

PACKAGING INFO

VERTICAL ORIENTATION		HORIZONTAL ORIENTATION	
ORIENTATION	Vertical	ORIENTATION	Horizontal
PIECES PER PALLET	20	PIECES PER PALLET	30
SIZE OF PACKING (MM)	1200x760x2110	SIZE OF PACKING (MM)	1930x1160x1290
WEIGHT OF PER PALLET (KG)	500	WEIGHT OF PER PALLET (KG)	745
PIECES PER CONTAINER	260	PIECES PER CONTAINER	720
PIECES PER CONTAINER	20ft	PIECES PER CONTAINER	40ft HC

*Data sheets are subject to change without notice.