

EFFICIENCY

- Low voltage-temperature coefficient ensures high-temperature operation
- Exceptional low-light performance combined with high sensitivity to light enables excellent energy delivery
- Up to 17.37% solar cell efficiency
- Up to 15.12% module efficiency

MATERIALS

- Highest quality, high-transmission tempered glass provides enhanced stiffness and impact resistance
- Advanced EVA encapsulation system with triple-layer back sheet meets the most stringent safety requirements for high-voltage operation
- A sturdy, anodized aluminum frame allows modules to be easily roof-mounted with a variety of standard mounting systems
- Ultra reliable bypass diodes prevent damage through overheating due to shaded or defective cells
- Innovative, environmentally friendly packaging method using pile-edges ensures modules arrive in perfect condition

BENEFITS

- Manufactured in an ISO 9001:2000 certified plant
- High efficiency, high safety, high reliability
- Output power tolerance of +/-5%
- 25-year limited warranty on power output, 5-year limited warranty on materials and workmanship
- Generate more energy per square meter
- Equipped weatherproof junction box, flawless operation in wet weather and marine applications
- Resilient to harsh weather conditions
- Optimal panel performance
- Long term product performance



Specifications

Cells	Monocrystalline silicon solar cells 125 x 62.5mm
Number of cells	36 (6x6)
Dimensions (mm)	820 X 808 X 35
Weight (kg)	9

Electrical Characteristics

Values at Standard Test Conditions STC (Air Mass AM1.5, Irradiance 1000W/m², Cell Temperature 25°C)

Model	SPM100-M
Max Power P _m (W)	100
Max Power Voltage V _m (V)	18.75
Max Power Current I _m (A)	5.34
Open-Circuit Voltage V _{oc} (V)	22.53
Short-Circuit Current I _{sc} (A)	5.70
Cell Efficiency (%)	17.00
Module Efficiency (%)	15.00
Maximum System Voltage (V)	DC3000V
Power Tolerance (%)	±3
Series Fuse Rating (A)	10

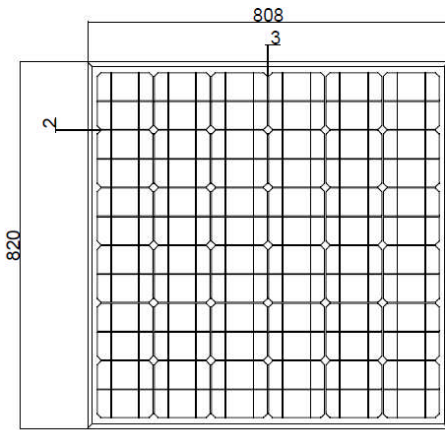
Components & Mechanical Data

Front Glass	High Transparency Tempered Glass, 3.2mm
Output Cables	4m m ² /0.9m
Connectors	MC4 (UV resistance and self-locking/IP67)
Frame	Anodized aluminium alloy type 6063-T5
Encapsulation Material	EVA (0.50 ± 0.03mm thickness)
Back Foil	White TPT (0.32 ± 0.03mm thickness)
Fixing adhesive	Silicone Sealant(White)
Temperature Range(°C)	-40°C to +90°C

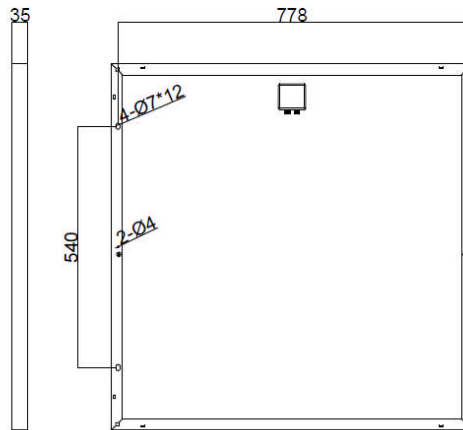
Temperature Coefficients

NOCT (°C)	47±2
Temperature Coefficient of P _m (%/°C)	-0.45±0.05
Temperature Coefficient of I _{sc} (%/°C)	0.05±0.01
Temperature Coefficient of V _{oc} (%/°C)	-0.35±0.02

PHYSICAL CHARACTERISTICS

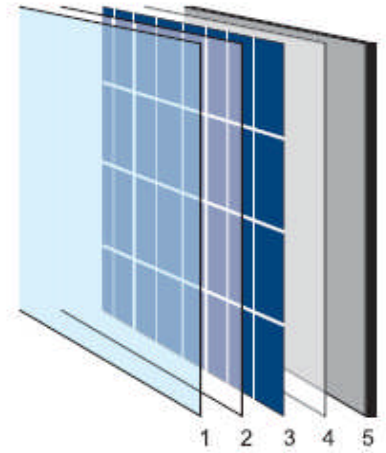


FRONT VIEW



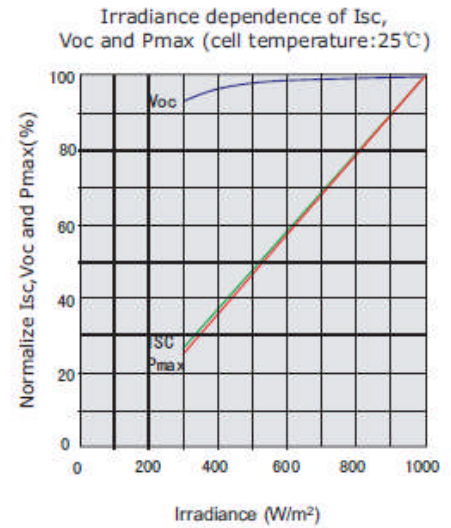
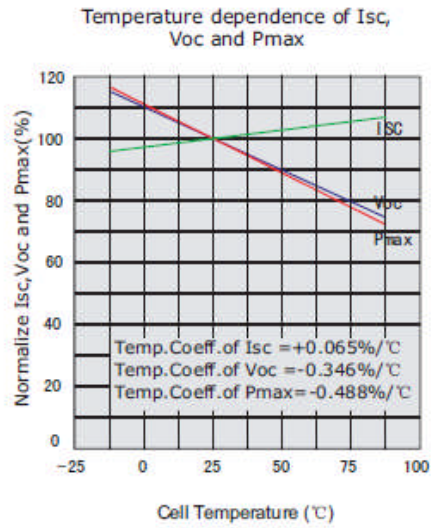
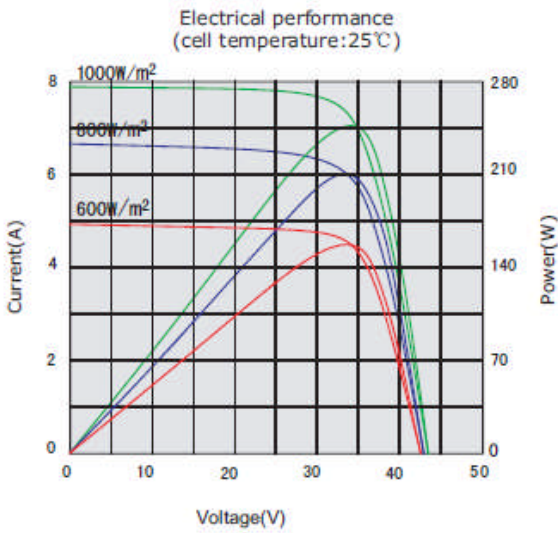
SIDE VIEW

BACK VIEW



- 1 Tempered glass
- 2 EVA
- 3 Cells
- 4 EVA
- 5 Triple-layer back sheet

ELECTRICAL CHARACTERISTICS



SC ORIGIN (M) SDN BHD LIMITED PRODUCT WARRANTY

SC Origin warrants its Modules supplied under this Contract to be free from defects in materials and workmanship under normal application, installation, use and service conditions. If the Modules fail to conform to this warranty, then for a period ending sixty (60) months from the delivery date, SC Origin will, at its option, either repair or replace the Modules or refund the purchase price as paid by the BUYER. The remedy set forth in this paragraph shall be the sole and exclusive remedy provided under the Limited Product Warranty ("Limited Warranty") and shall not extend beyond sixty (60) months period set forth herein. Your use of this product constitutes agreement with all provisions of this Limited Warranty.

PEAK POWER WARRANTY

A: 10 years

SC Origin warrants:

If, within ten (10) years from the delivery date, any PV modules exhibit a power output less than 90% of the minimum Peak Power at STC as specified at the date of delivery in the Product Information Sheet, provided that such loss in power is determined by SC Origin (at its sole and absolute discretion) to be due to defects in material or workmanship, SC Origin will replace such loss in power by either providing to the BUYER additional PV modules to make up such loss in power, or by repairing or replacing the defective PV modules, or by refunding the Purchase Price taking into account a yearly depreciation of ten (10) % of the Purchase Price, at the option of SC Origin.

B: 25 years

SC Origin additionally warrants:

If, within (a) the first ten (10) years from the delivery date, any PV modules exhibit a power output less than 90% of the minimum Peak Power at STC as specified at the date of delivery in SC Origin's Product Information Sheet, or (b), within a period of twenty-five (25) years from the delivery date to the BUYER, any PV modules exhibit a power output less than 80% of the minimum Peak Power at STC, provided that such loss in power is determined by SC Origin (at its sole and absolute discretion) to be due to defects in material or workmanship, SC Origin will replace such loss in power by either providing to the BUYER additional PV modules to make up such loss in power, or by repairing or replacing the defective PV modules, or by refunding the Purchase Price taking into account a yearly depreciation of four (4) % of the Purchase Price, at the option of SC Origin. The remedy set forth in this clause shall be the sole and exclusive remedies provided under the Peak Power Warranty.

EXCLUSIONS AND LIMITATIONS

A. Warranty claims in any event must be filed within the applicable warranty period.

B. Warranty does not apply to any Modules which in SC Origin absolute judgment have been subjected to:

- Misuse, abuse, neglect or accident;
- Alteration, improper installation or application;
- Non-observance of SC Origin's installation-, users-, and maintenance instructions;
- Repair or modifications by someone other than an approved service technician of SC Origin;
- Power failure surges, lightning, flood, fire, accidental breakage or other events outside SC Origin's control.

C. Warranty does not cover any transportation costs for return of the Modules, or for re-shipment of any repaired or replaced Modules, or cost associated with installation, removal or reinstallation of the Modules.

D. Warranty does not apply under the following conditions:

- War, theft, vandalism, or an act of nature such as fire, floods, rain, wind, lightning, extreme weather, earthquake
- Damage during shipment
- Damages exceeding the total cost of the product

LIMITED LIABILITY

The Limited Warranty set forth herein are expressly in lieu of and exclude all other expressed or implied warranties, including but not limited to warranties of merchantability and of fitness for particular purpose, use, or application, and all other obligations or liabilities on the part of SC Origin, unless such other warranties, obligations or liabilities are expressly agreed to in writing signed and approved by SC Origin. SC Origin shall have no responsibility or liability whatsoever for damage or injury to persons or property, or for other loss or injury resulting from any cause whatsoever arising out of or related to misuse or installation of the Modules. Under no circumstances shall SC Origin be liable for incidental, consequential or special damages, howsoever caused. Loss of use, loss of profits, loss of production and loss of revenues are therefore specifically excluded.

****Peak Power**** is the power in watt peak that a PV module generates in its maximum power point. **"STC"** is as follows (a) light spectrum of AM 1.5, (b) an irradiation of 1,000W per m2 and (c) a cell temperature of 25 degrees Centigrade. The measurements are carried out in accordance with IEC60904 as tested at the junction box terminals per the calibration and testing standards of SC Origin valid at the date of manufacture of the PV modules. SC Origin's calibration standards shall be in compliance with the standards applied by international institutions accredited for the purpose.

*The Limited Warranty defined herein applies only to the Modules which (a) are sold directly by SC Origin or through its authorized local distributor and (b) have SC Origin's logo and product serial number.

Send product purchased in Pan Asia to:
SC Origin (M) Sdn Bhd No. 87, Jalan TPP 1/13 Taman Industri Puchong 47100 Puchong Selangor

THE LIMITED WARRANTY IS THE ONLY WARRANTY OF SC ORIGIN (M) SDN BHD. THERE ARE NO OTHER WARRANTIES, EXPRESSED OR IMPLIED, EXCEPT AS PROVIDED BY LAW, INCLUDING THE IMPLIED WARRANTY OF QUALITY, MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE AND SUCH IMPLIED WARRANTIES, IF ANY, ARE LIMITED IN DURATION TO THE TERM OF THE LIMITED WARRANTY.



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Harvest the Sunpower!

Think before
you print!

