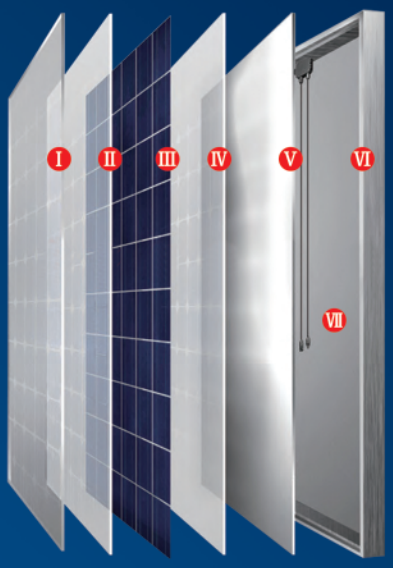
Schutten solar
blue sky . green life

STM5-XXX/72 Series

STM5-210W, STM5-205W, STM5-200W, STM5-195W, STM5-190W, STM5-185W



I . GLASS
II , IV. EVA
III. CELL
V . BACKSHEET
VI. FRAME
VII. JUNCTION BOX

I GLASS

- High light transmission giving more electricity
- Excellent mechanical loading performance (5400Pascal)
- SPF-UL certified

II IV EVA

- High light transmission assuring better power performance
- High GEL and peeling strength guarantying strong encapsulation
- Good ultraviolet aging resistance
- TUV/UL certified

III CELL

- Excellent efficiency and long term reliability
- Good performance under high temperature and low irradiance conditions
- 100% In-Line Electroluminescence(EL) tested
- Positive tolerance for each panel
- TUV/UL

V BACKSHEET

- TEDLAR based encapsulation and protection
- Good aging resistance guarantying strong durability performance
- Excellent adhesion and ultraviolet stability
- TUV/UL certified

VI FRAME

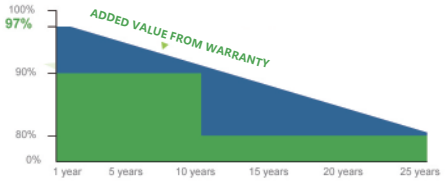
- Anodized/Electrophoretic aluminum means durable protection from environment
- Unique designed profile ensuring strong mechanical loading performance
- Silver/Black color available

VII JUNCTION BOX

- Reliable by-pass diodes assuring good product protection
- Locking connector working compatible worldwide
- Excellent heat emission performance
- IP65 or IP67 protection
- TUV/UL certified

Temperature dependence of Isc Voc and Pmax

Irradiance dependence of Isc Voc and Pmax (cell temperature:25°C)



TEL: +86 25 86816810 FAX: +86 25 86816811
E-MAIL: info@schutten-solar.com WEB: www.schutten-solar.com
ADR: B1-1, 14F, International Business Center, No. 18, Zhongshan East Road, Baixia District, 210005, Nanjing, Jiangsu, China

STM5-XXX/72 Series

STM5-210W, STM5-205W, STM5-200W, STM5-195W, STM5-190W, STM5-185W

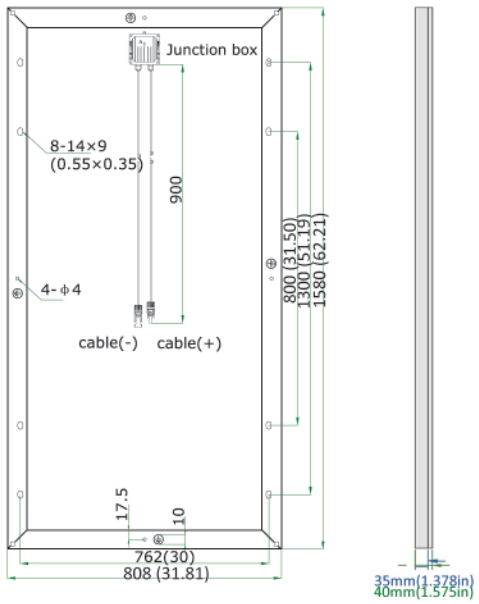
Electrical Characteristics

Module Type	Unit	STM5-210/72	STM5-205/72	STM5-200/72	STM5-195/72	STM5-190/72	STM5-185/72
Rated Power at STC (Pmp)	W	210	205	200	195	190	185
Power Tolerance	W	±3%	(0,+5)	(0,+5)	(0,+5)	(0,+5)	(0,+5)
Power Maximum at STC	W	213	210	205	200	195	190
Cell Efficiency (ηc)	%	19.4-19.9	19.0-19.4	18.5-19.0	18.1-18.5	17.6-18.0	17.2-17.6
Minimum Module Efficiency (ηm)	%	16.4-16.7	16.0-16.4	15.7-16.0	15.3-15.7	14.8-15.2	14.5-14.8
Open Circuit Voltage (Voc)	V	45.5	45.4	45.3	45.2	45.1	45.0
Short Circuit Current (Isc)	A	6.11	5.98	5.84	5.71	5.57	5.44
Maximum Power Voltage (Vmp)	V	36.7	36.6	36.6	36.5	36.4	36.4
Maximum Power Current (Imp)	A	5.72	5.60	5.47	5.35	5.22	5.10
Maximum System Voltage	V	1000 (TUV), 600 (UL)					
Maximum Series Fuse Rating	A	10					

STC: Irradiance 1000W/m², module temperature 25℃, AM=1.5;

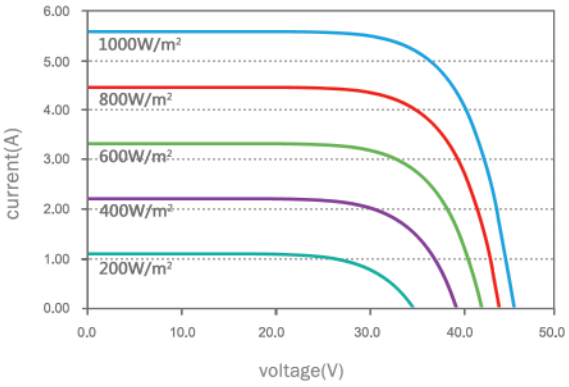
Temperature Characteristics

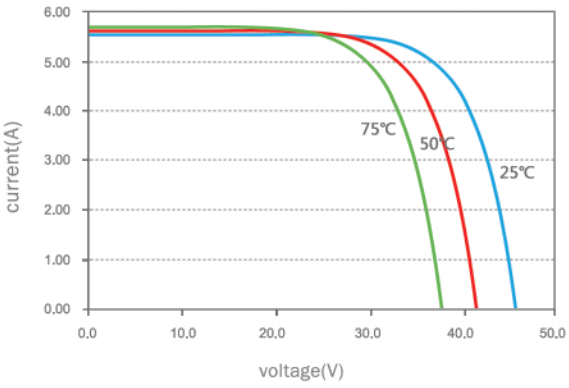
Pmax Temperature Coefficient	%/℃	-0.45
Voc Temperature Coefficient	%/℃	-0.32
Isc Temperature Coefficient	%/℃	+0.04
Operating Temperature	℃	-40 ~ +85
Nominal Operating Cell Temperature (NOCT)	℃	45±2



- All Dimensions in mm (inch)
- The above drawing is a graphical representation of the product. For engineering quality drawings please contact **SCHUTTEN**

Current-Voltage & Power-Voltage Curve (STM5-200/72)





Mechanical Specifications

External Dimensions	1580 × 808 × 35 mm
Weight	15.5kg
Solar Cells	Monocrystalline 125 × 125mm (72pcs)
Front glass	3.2 mm tempered glass, low iron
Frame	Anodized/ Electrophoretic aluminum aloy
Junction Box	IP65 /IP67
Output Cables	4.0 mm², symmetrical lengths 900mm
Connector	MC4 Compatible
Maximum Snow Load	550kg/m²
Maximum Wind Load	200km/h
Hailstone Impact Test	80km/h for 25mm ice ball

Dealer information:

Schutten Solar
http://www.schutten-solar.com