Schutten solar

Import Sun Pv™



STM5-XXX/36

STM5-80/36 *STM5-85/36* *STM5-90/36*
STM5-95/36 *STM5-100/36*

Monocrystalline Photovoltaic Module

TÜV NORD CE IEC

Features

- High module efficiency
- Stable power output due to leading process technologies
- Outstanding electrical performance in high temperatures and low irradiance conditions
- Easy to install based on innovative engineering design Resilient to all weather applications

Applications

- On-grid utility systems
- On-grid commercial systems
- Off-grid residential systems

Quality and Warranty

- Positive power tolerance up to 5w
- Broad power range from 5w to 320w
- High power output in harsh environment
- Low power degradation in practical application for at least 25 years
- Easy installation thanks to excellent physical design and light weight
- Variety of options available including poly, mono, BIPV, black and customized products

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STM5-XXX/36

SPECIFICATIONS

Note: the specifications are obtained under the Standard Test Conditions (STCs): 1000 W/m^2 solar irradiance, 1.5 Air Mass, and cell temperature of 25 C.

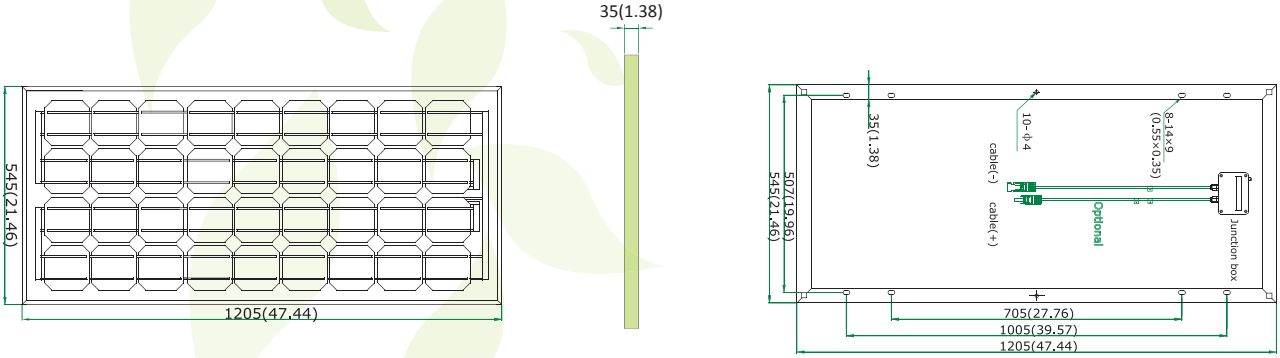
Model type	STM5-80/36	STM5-85/36	STM5-90/36	STM5-95/36	STM5-100/36
Cell Efficiency	15.38%	16.78%	17.25%	18.28%	19.25%
Module Efficiency	12.87%	13.32%	14.38%	14.95%	15.13%
Peak power (Pmax)	80W	85W	90W	95W	100W
Maximum power voltage (Vmp)	17.60V	17.70V	17.80V	18.10V	19.30V
Maximum power current (Imp)	4.55A	4.80A	5.06A	5.25A	5.36A
Open circuit voltage (Voc)	22.00V	21.90V	22.10V	22.00v	22.10v
Short circuit current (Isc)	4.90A	5.20A	5.42A	5.75A	5.98A
Power Tolerance	0 to +5W	0 to +5W	0 to +5W	0 to +5W	0 to +5W

Maximum system voltage	DC 1000V
Temp. Coeff. of Isc (TK Isc)	0.065 %/℃
Temp. Coeff. of Voc (TK Voc)	- 0.346 %/℃
Temp. Coeff. of Pmax (TK Pmax)	- 0.488 %/℃
Normal Operating Cell Temperature	45.3 ±2℃

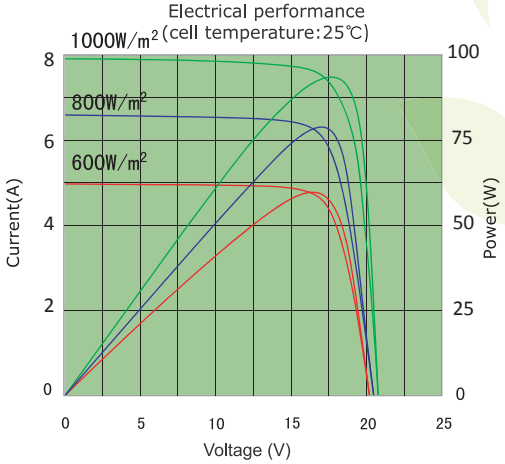
Cell type	MonoCrystalline Silicon, 125mm x 125mm
Number of cells	36 cells in series
Weight	8.2 kg (18.08 lbs)
Dimensions	1205 x 542 x 35 mm

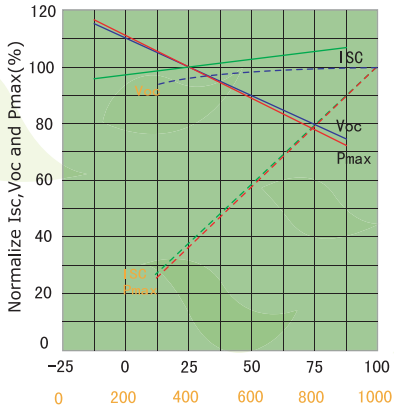
PHYSICAL CHARACTERISTICS

Unit:mm (inch)



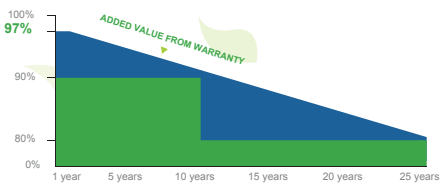
ELECTRICAL CHARACTERISTICS





Temperature dependence of Isc, Voc and Pmax

Irradiance dependence of Isc, Voc and Pmax (cell temperature:25 ℃)



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