

MONOCRYSTALLINE PHOTOVOLTAIC MODULE

ST180M(72) ST185M(72) ST190M(72) ST195M(72)

SPECIFICATIONS

Solar Cell	Monocrystalline silicon solar cells 125mm×125mm
No. of Cells	72pcs
Dimensions	1580mm x 808mm x 35mm
Front Glass	Tempered glass (3.2mm)
Weight	15Kg
Power Tolerance	0/+3%



ELECTRICAL CHARACTERISTICS

Module	ST180M(72)	ST185M(72)	ST190M(72)	ST195M(72)
Open Circuit Voltage (Voc)	43.2V	43.3V	43.6V	43.6V
Optimum Operating Voltage (Vmp)	36.0V	36.2V	36.3V	36.4V
Short Circuit Current (Isc)	5.6A	5.77A	5.85A	5.96A
Optimum Operating Current (Imp)	5.0A	5.11A	5.24A	5.36A
Module Efficiency	14.24%	14.64%	15.03%	15.43%
Maximum Power at STC (Pm)	180Wp	185Wp	190Wp	195Wp
STC: Irradiance 1000W/m ²	Module Temperature 25°C		AM=1.5	
Operating Temperature -40°C / +80°C	Maximum System Voltage 1000VDC			

TEMPERATURE & COEFFICIENTS

NOCT	47°C ± 2°C
Temp. Coeff. Of Isc (TK Isc)	(0.080 ± 0.015)%/°C
Temp. Coeff. Of Voc (TK Voc)	-0.32%/°C
Temp. Coeff. Of Pmax (TK Pmax)	-(0.45 ± 0.05)%/°C
Max dinam. load back (eg. wind)	2400Pa
Max static load front (eg. snow and wind)	5400Pa
Max hailstone impact (diameter/velocity)	25mm / 23m/s
NOCT: Nominal Operating Cell Temperature	

JUNCTION BOX

Output Cables	1.1m
Connectors	MC4
Diodes	6 Bypass Diodes

CERTIFICATIONS & STANDARDS



WARRANTY

- 10 years material and workmanship warranty
- 12 years warranty, 90% power output
- 25 years warranty, 80% power output

Current-Voltage & Power-Voltage Curve (190S-24)

