

## POLYCRYSTALLINE PHOTOVOLTAIC MODULE

ST210P(60) ST215P(60) ST220P(60) ST225P(60) ST230P(60) ST235P(60) ST240P(60)

### SPECIFICATIONS

Solar Cell	Polycrystalline silicon solar cells 156mm×156mm
No. of Cells	60pcs
Dimensions	1650mm × 992mm × 40mm
Front Glass	Tempered glass (3.2mm)
Weight	19.5Kg
Power Tolerance	0/+3%



### ELECTRICAL CHARACTERISTICS

Module	ST210P (60)	ST215P (60)	ST220P (60)	ST225P (60)	ST230P (60)	ST235P (60)	ST240P (60)
Open Circuit Voltage (Voc)	36.2V	36.3V	36.8V	36.9V	37.0V	37.1V	37.2V
Optimum Operating Voltage (Vmp)	28.1V	28.1V	29.0V	29.0V	29.8V	30.1V	30.4V
Short Circuit Current (Isc)	8.08A	8.08A	8.15A	8.23A	8.26A	8.33A	8.37A
Optimum Operating Current (Imp)	7.48A	7.48A	7.60A	7.76A	7.72A	7.81A	7.89A
Module Efficiency	12.93%	13.22%	13.55%	13.97%	14.17%	14.46%	14.78%
Maximum Power at STC (Pm)	210Wp	215Wp	220Wp	225Wp	230Wp	235Wp	240Wp
STC: Irradiance 1000W/m <sup>2</sup>	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 (225-20)

