



TRINA TSM-PC05, 200W to 220W

Solar Photovoltaic Module

TYPICAL ELECTRICAL CHARACTERISTICS

Type	TSM	200-PC05	210-PC05	220-PC05
Max-Power	Pm(W)	200	210	220
Power Tolerance	(%)	±3	±3	±3
Max-Power Voltage	Vm(V)	28.7	29.7	29.8
Max-Power Current	Im(A)	6.97	7.19	7.39
Open-Circuit Voltage	Voc(V)	36.0	36.4	36.8
Short-Circuit Current	Isc(A)	7.75	7.86	8.00
Max-System Voltage	(VDC)	1000		
Cell Efficiency	η_c (%)	13.7	14.4	15.1
Module Efficiency	η_m (%)	12.2	12.8	13.4
Number, type and arrangement of cells		60 pcs. Multi-Crystalline Silicon (6x10)		
Cell Size	(mm)	156 X 156		
No. of Bypass Diodes	(pcs.)	6		
Max. Series Fuse	(A)	11		
Pm Temperature Coefficient	(%/°C)	- 0.45		
Isc Temperature Coefficient	(%/°C)	0.05		
Voc Temperature Coefficient	(%/°C)	- 0.35		
NOCT- Nominal Operating Cell Temperature	(°C)	47±2		

STRENGTHS

- Tolerance ± 3%
- **3 Bus Bar Configuration**
- Plug & Play Connectors
- High Transmission, Low Iron Tempered Glass

WARRANTY

Manufacturing: **5 years**
 Power production: **90% : 10 years**
80% : 25 years

CERTIFICATIONS



High Efficiency Multicrystalline Solar Modules

MECHANICAL CHARACTERISTICS

Cable type, Diameter and Length		4mm ² , TÜV certified, 900mm
Type of Connector		Compatible Type III and Type IV
Dimension A*B*C	(mm)	1650*992*46
Weight	(Kg)	19.5
No. of Draining Holes In Frame		8
Glass, Type and Thickness		High Transmis., Low Iron, Tempered Glass 3.2mm.

PACKAGING CONFIGURATION

Packing Configuration		2 pcs./box or 20 pcs./box
Quantity/Pallet		36 pcs/pallet or 20 pcs/pallet
Loading Capacity		504 pcs/40ft or 520 pcs/40ft(H)

ABSOLUTE RATINGS

Dielectric Insulation Voltage	(VDC)	3000 max.
Operating Temperature	(°C)	-40~+85
Storage Temperature	(°C)	-40~+85

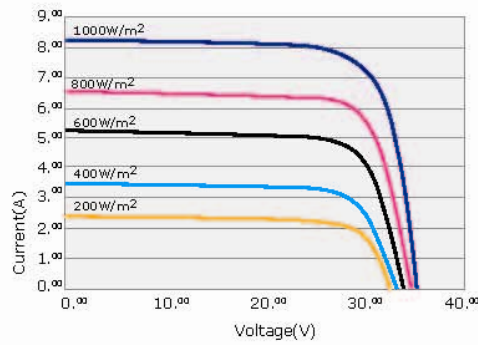
*STC Conditions (1000W/m², 1.5 AM and 25°C Cell temperature)



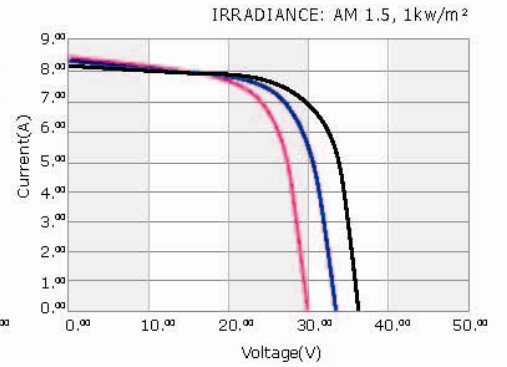
TRINA TSM-PC05, 200W to 220W
Solar Photovoltaic Module

I-V Curves

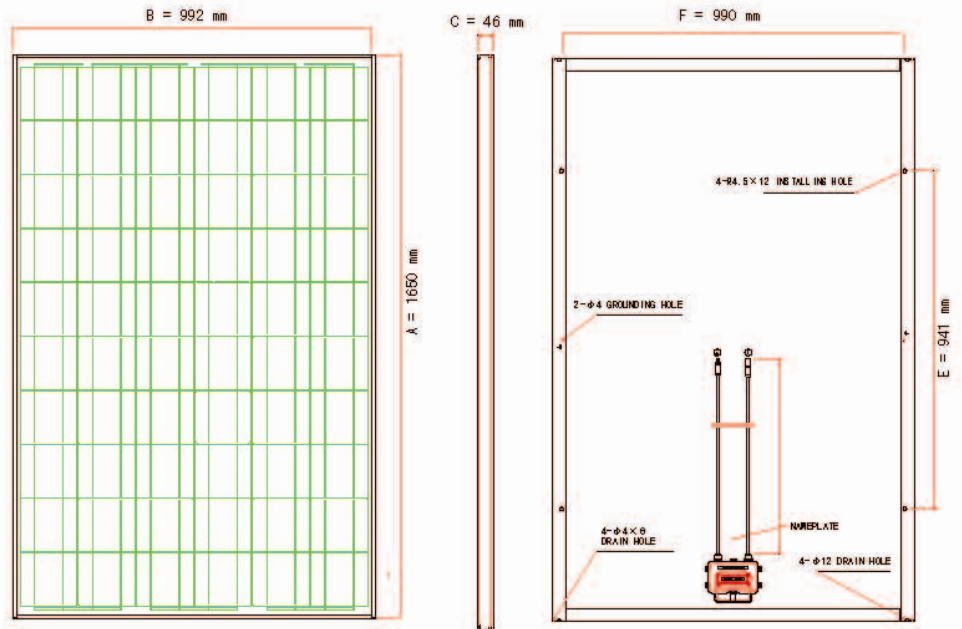
I-V Curves of PV module TSM-220-PC05



I-V Curves of Module TSM-220-PC05 at various cell temperatures



Dimensions



Dimensions (mm) A*B*C	1650*992*46
Installation Hole (mm) E*F	990*941
Cable Length (mm) G	1000

*The company is not responsible for potential typing errors.