

Datasheet for A-Si thin film solar module

**TRM12A**

## ELECTRICAL CHARACTERISTICS

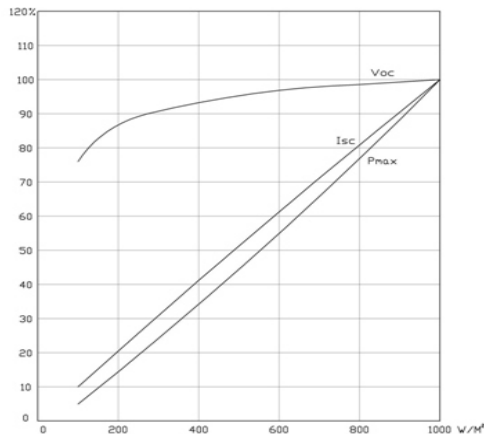
Cell Type	A-Si thin film solar module
Norminal Power	$P_{max} = 12W$
Open Circuit Voltage	$V_{oc} = 26.7V$
Short Circuit Current	$I_{sc} = 1.05A$
Voltage at $P_{max}$	$V_m = 18V$
Current at $P_{max}$	$I_m = 690mA$
Temp. Coefficient/ $P_m$	$-(0.19 \pm 0.03)\%/^{\circ}C$
Temp. Coefficient/ $V_{oc}$	$-(0.34 \pm 0.04)\%/^{\circ}C$
Temp. Coefficient/ $I_{sc}$	$(0.08 \pm 0.02)\%/^{\circ}C$

STANDARD TEST CONDITIONS (STC: 1000 W / m<sup>2</sup>, 25°C, AM 1.5 SPECTRUM)  
TOLERANCE  $\pm 10\%$ .

## RELIABILITY STATISTICS

Operating Temperature Range	-40°C ~ +90°C
Humidity & Temperature Test	85°C & 85% humidity 1000h
Junction Box	IP65 rated
Outstanding performance under low light irradiance	
Manufactured in ISO 9001 certified factory	

## PERFORMANCE & IRRADIANCE CURVE



## QUALIFICATION AND CERTIFICATES

CE, IEC(pending), UL(pending)



Trony Solar Holdings Company Limited

Address: 21F, East, Great China International Exchange Square, No.1 Fuhua Rd, Futian District, Shen Zhen, P.R.China  
TEL: +86-755-33987669

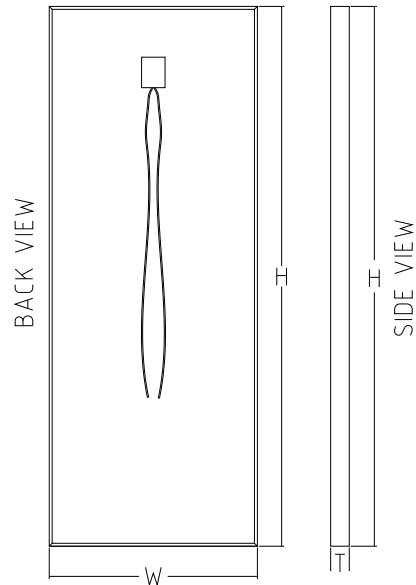
Trony Solar Industrial Park

Address: No.7 Road south, Baolong Industrial zone, Longgang District, Shenzhen 518116 P.R China  
TEL: +86-755-89687669

www.trony.com

Email: sales@trony.com

## DIMENSIONS



<b>H</b>	<b>W</b>	<b>T</b>
920mm/36.2"	355mm/14.0"	16.7mm/0.7"

## MICCHANICAL SPECIFICATIONS

Dimensions (H*W*T) as above	920*355*16.7mm
Weight	3.3Kg
Front Cover	TCO glass
Back Cover	PET
Frame	Silver anodized aluminum
Output Lead Wire	Waterproof wire

## APPEARANCE SPECIFICATIONS

Delaminations or bubbles do not form a continuous path between any part of the electrical circuit and the edge of module

No any cracks, scratch or perforation in the glass or the backsheet

## PROPERTY FOR SYSTEM DESIGN

Series Fuse Rating	2A
Maximum System Voltage	600V
Recommended applications for Off-grid systems	

Design and specifications are subject to change without notice.

