

Datasheet for A-Si thin film solar module

TRM50B

ELECTRICAL CHARACTERISTICS

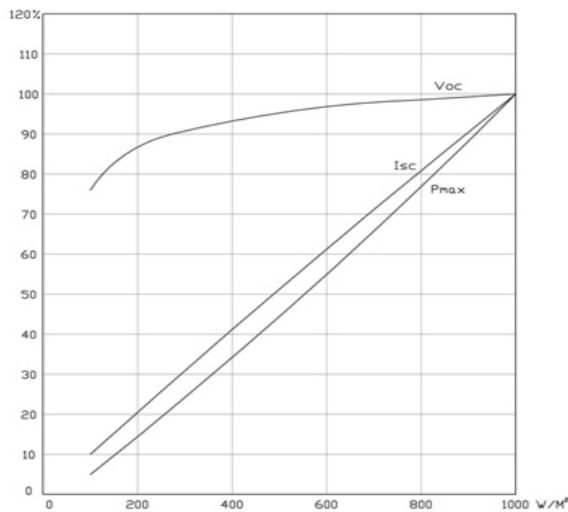
Cell Type	A-Si thin film solar module
Norminal Power	$P_{max} = 50W$
Open Circuit Voltage	$V_{oc} = 79.5V$
Short Circuit Current	$I_{sc} = 1.05A$
Voltage at P_{max}	$V_m = 61.7V$
Current at P_{max}	$I_m = 0.81A$
Temp. Coefficient/ P_m	$-(0.19 \pm 0.03)\%/^{\circ}C$
Temp. Coefficient/ V_{oc}	$-(0.34 \pm 0.04)\%/^{\circ}C$
Temp. Coefficient/ I_{sc}	$(0.08 \pm 0.02)\%/^{\circ}C$

STANDARD TEST CONDITIONS (STC: 1000 W / m², 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
Mechanical Load Test	5400Pa
Manufactured in ISO 9001 certified factory	

PERFORMANCE & IRRADIANCE CURVE



QUALIFICATION AND CERTIFICATES

CE, IEC(pending), TUV(pending)



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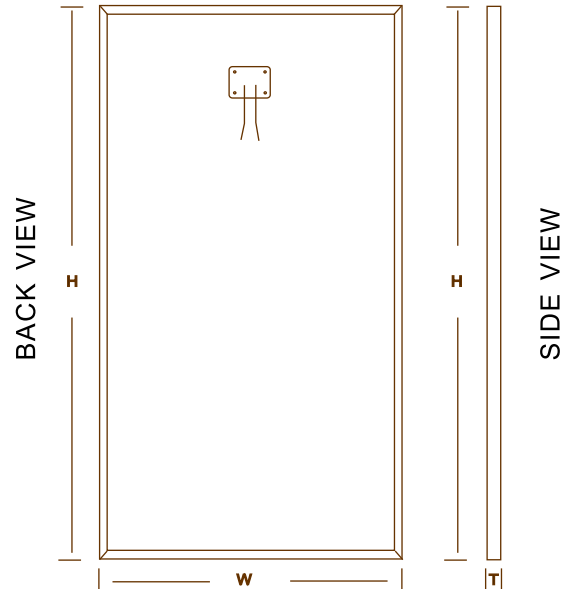
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DIMENSIONS



H	W	T
1645mm/64.8"	712mm/28.0"	27mm/1.1"

MICCHANICAL SPECIFICATIONS

Dimensions (H*W*T) as above	1645*712*27mm
Weight	19.5 kg
Front Cover	TCO glass
Back Cover	Tempered glass
Frame	Silver anodized aluminum
Junction Box	IP65 Rated
Bypass Diode	Installed
Output Lead Wire	Waterproof wire and connector

PROPERTY FOR SYSTEM DESIGN

Series Fuse Rating	2A
Maximum System Voltage	1000V

Design and specifications are subject to change without notice.

