



SEE AS1 SERIES [160W - 185 W]



Multicrystalline Silicon Photovoltaic Module

Features

- High-power module using 6" multicrystalline solar cells
- 48 solar cells connected in series
- Up to 14.2% module conversion efficiency
- Using optical low iron tempered glass, EVA laminate and Tedlar backsheet
- Bypass diode minimizes power drop caused by shade
- Anodized aluminum frame
- Manufactured in ISO 9001 : 2000 certified facility
- 20 years limited warranty on power output

ELECTRICAL CHARACTERISTICS

Parameters		SEE 160P-48-AS1	SEE 165P-48-AS1	SEE 170P-48-AS1	SEE 175P-48-AS1	SEE 180P-48-AS1	SEE 185P-48-AS1
Maximum power	P_{max}	160W	165W	170W	175W	180 W	185 W
Maximum power voltage	V_{pm}	22.27V	22.59V	22.99V	23.41V	23.68V	23.75V
Maximum power current	I_{pm}	7.2A	7.33A	7.41A	7.48A	7.61A	7.79A
Open circuit voltage	V_{oc}	28.79V	28.92V	29.09V	29.29V	29.51V	29.76V
Short circuit current	I_{sc}	7.73A	7.82A	7.92A	8.03A	8.15A	8.23V
Module efficiency		12.3%	12.6%	13.0%	13.4%	13.8%	14.25%

Standard test conditions: Irradiance 1,000W/m²; Spectral distribution AM 1.5; Module temperature 25°C

SPECIFICATIONS

Parameters

No. of cells	48 in series
Maximal system voltage	1,000V
Performance Tolerance	± 3%
Cable connection	Tyco plug connector and junction box
Bypass diodes	3 pcs.

Temperature coefficients

Temperature coefficient of P_N	-0.51 %/K
Temperatue coefficient of U_{OC}	-0.32 %/K
Temperature coefficient of I_{SC}	0.03 %/K

Mechanical parameters

Dimensions	1,319 x 989 x 47.5 mm
Weight	15.7 kg
Mechanical Ratings	2,400 Pa

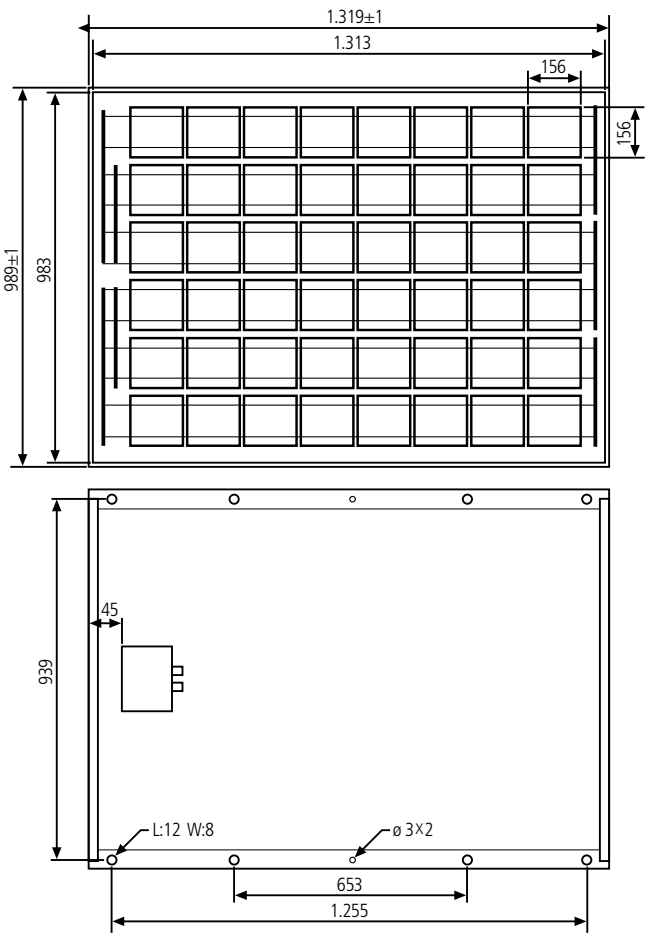
Absolute Maximum Ratings

Operating temperature	-40 to +90 °C
Ambient temperature	-40 to +90 °C

Qualifications

TÜV-certificate in summer 2008,
Made in Taiwan

OUTLINE DIMENSIONS



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CONTACT