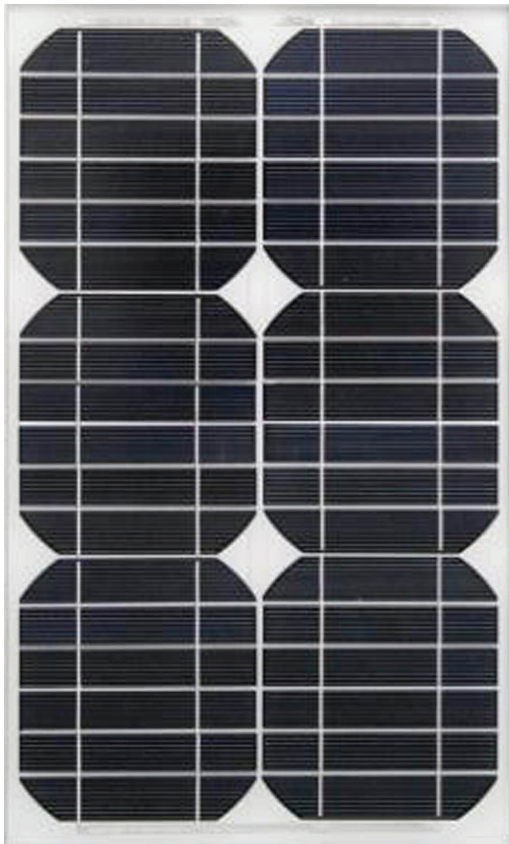


ES4-12WM

EdgeTech
SOLAR
INTERNATIONAL Ltd.



Features

White tempered glass, EVA resin, weather proof film and anodized aluminum frame provide efficient protection from the severest environmental conditions.

Perfect for off-grid applications.

Product guarantee 3 years.

Optional Feature: OLPC Laptop compatible XO connector and cable.

EdgeTech Solar photovoltaic modules are produced in a ISO9001 qualified factory using the highest quality materials and excellent quality control. Each module must undergo an extensive series of performance tests putting the module under extreme electrical and mechanical conditions to assure each module meets or exceeds specifications for many years of reliable performance even in the most challenging of environments.

QUALITY COMPONENTS

HIGH PERFORMANCE

RELIABLE

DURABLE

25 YEAR WARRANTY

On the Edge of Today's
Energy Technology



ES4-12WM

ELECTRICAL CHARACTERISTICS

Type of Module	Mono crystalline
Maximum Power Rating (Pmax)	13.94 Watts
Maximum Power Tolerance ±	5 %
Open-Circuit Voltage (Voc)	22.37 Volts
Short-Circuit Current (Isc)	0.815 Amps
Maximum Power Voltage (Vmp)	18.42 Volts
Maximum Power Current (Imp)	0.757 Amps
Module Efficiency	> 13.5 %
Number of Cells in Series	6 Cells
Cell Size	125x125 mm
Temperature Range	-40 to 85 °C
Nominal Voltage	12 Volts

TEMPERATURE COEFFICIENTS

(Isc) Current Temp Coefficient	+0.100 %/°C
(Voc) Voltage Temp Coefficient	-0.380 %/°C
(Pmax) Power Temp Coefficient	-0.470 %/°C
(Im) Current Temp Coefficient	-0.100 %/°C
(Vm) Voltage Temp Coefficient	-0.380 %/°C

MECHANICAL CHARACTERISTICS

Dimensions	290 x 460 x 18 mm
Weight	1.33 kg
Packing	10 pcs per carton
Container Loading Capacity	8500 pcs / 20ft

WARRANTY

Workmanship & Product Warranty	3 years
Power Output Warranty 12 years	90% Power
Power Output Warranty 25 years	80% Power

CERTIFICATIONS

ISO



EdgeTechSolar International Ltd.

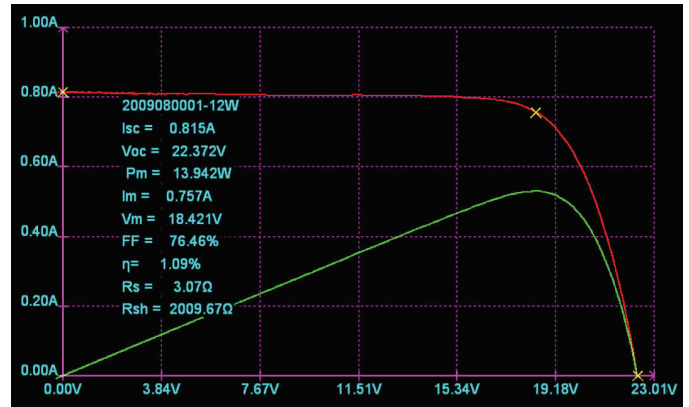
32H Nam Shan Village
New Territory, Hong Kong, China SAR

US Toll Free 1.800.209.0909
US Tel 1.650.488.8300
HK Tel 852.8120.7887

Sales@EdgetechSolar.com
www.EdgetechSolar.com

IV CURVES

Current-Voltage characteristics of cells at various irradiance levels



DIMENSIONS

