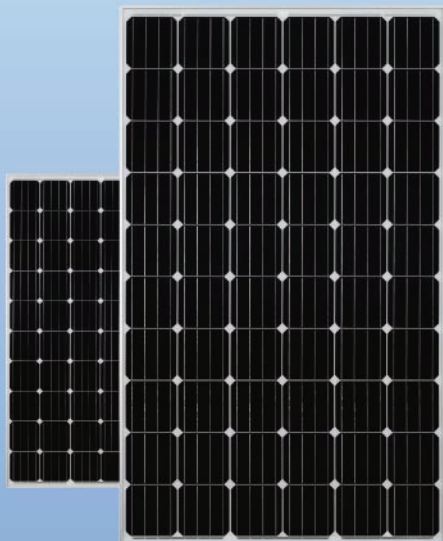




**GREEN**  
ENGINEERING  
SOLAR CORP



**60** cells  
Monocrystalline  
Module

**290W**  
Output Range

**20.3%**  
Cell Efficiency

**0~+5W**  
Output  
Guarantee

**Munich RE**

Munich RE providing Reinsurance

**12** Years

Product

**25** Years

Power Output

● Ideal modules for commercial and residential

● ISO9001, ISO14001, OHSAS18001 Standard

Green Solar PV

Monocrystalline Solar Module

# GS-290M (60)

**290W**

20.3% Cell Efficiency  
Output 0 - +5W



PID

PID and snail trails free



Excellent performance under low irradiance



Additional environmental tested for salt mist\ammonia\sand, Ensure performance in harsh environment



Power tolerance 0~+5w  
Guaranteed power output



Additional yield and easy maintenance with high transparent self-cleaning glass



2 times EL testing during manufacturing, defect-free modules



Passed TUV Thresher test ensure module's long-term performance and reliability



Customizable 5BB solar module

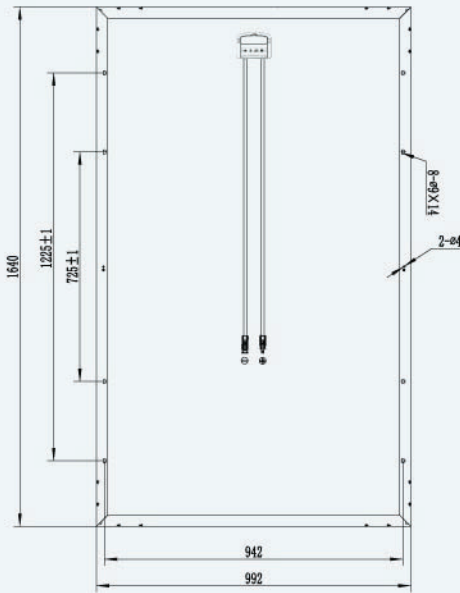
# 1300 786 008

[www.greenengineeringsolar.com.au](http://www.greenengineeringsolar.com.au)

6/40 Abbots Rd, Dandenong South, VIC3175

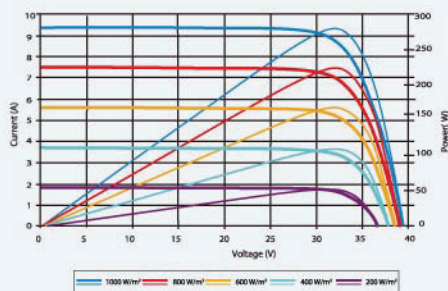


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Back View

## Current-Voltage & Power-Voltage Curves (280W)



Voltage (V)

# Monocrystalline Solar Module

## GS-290M (60)

Electrical Data (NOCT)		GS-290M-60
Max. Power	$P_m(W)$	290
Power Tolerance	$P_m(W)$	0~+5
Max. Power Voltage	$V(M)$	32.6
Max. Power Current	$I(M)$	8.90
Open Circuit Voltage	$V_{OC}(V)$	39.2
Open Circuit Current	$I_{SC}(A)$	9.45
Module Efficiency	(%)	17.8

STC: Irradiance 1000W/m<sup>2</sup>, Module temperature 25°C, AM=1.5

Electrical Data (NOCT)		GS-290M-60
Max. Power	$P_m(W)$	206
Max. Power Voltage	$V(M)$	28.9
Max. Power Current	$I(M)$	7.38
Open Circuit Voltage	$V_{OC}(V)$	35.4
Short Circuit Current	$V_{OC}(V)$	7.69

NOCT: Irradiance 800W/m<sup>2</sup>, Ambient temperature 20°C, AM=1.5, Wind speed 1m/s

## Mechanical Characteristics

Solar Cell Type	156×156mm Mono
No. of cells	60 [6×10]
Dimensions	1640×992×35mm
Weight	18.2kg
Frame	Anodized Aluminum Alloy
Junction Box	IP67 Rated
Cables	4mm <sup>2</sup> , 900mm
Connectors	MC4/MC4 compatible

## Packing Configuration

Modules per pallet	26 piece
Modules per 40' container	728 piece

## Temperature Rating

NOCT	45±2°C
Temp Coefficient of $P_{max}$	-0.42%/°C
Temp Coefficient of $V_{oc}$	-0.31%/°C
Temp Coefficient of $I_{sc}$	0.039%/°C

## Maximum Rating

Operating Temp	-40~+85°C
Max. System Voltage	1000V DC
Max. Series Fuse Rating	15A