

# GIVING CHILDREN HOPE-SERIES SOLAR MODULES

## GIVING CHILDREN HOPE

Your purchase of GCHope Series modules helps Giving Children Hope accomplish their mission. Proceeds from this series funds the installation of a solar system for Giving Children Hope. This will reduce their operating costs and increase their efficiency.

Giving Children Hope promotes family sustainability, economic independence, and self-sufficiency because every child deserves a stable environment. They provide medical, nutritional, and other basic supplies to those in need.

You can find more information on Giving Children Hope at [www.gchope.org](http://www.gchope.org)

### MONOCRYSTALLINE MODULE GIVING CHILDREN HOPE SERIES ECOXXS156M-60 Monocrystalline 250W



**10** YEAR  
WORKMANSHIP  
GUARANTEE

+

**25** YEAR  
PERFORMANCE  
GUARANTEE



INCREASED MONO CELL  
EFFICIENCY: 18.2%



REPELS DIRT AND WATER



EXCELLENT PERFORMANCE  
UNDER LOW LIGHT  
CONDITIONS



BLACK ANODIZED ALUMINUM  
FRAMES PROVIDE PROTECTION  
FROM THE MOST SEVERE  
ENVIRONMENTAL CONDITIONS



MODULE GLASS MIT:  
"SELF-CLEANING" AR  
SURFACE + WATTS: +2~5%



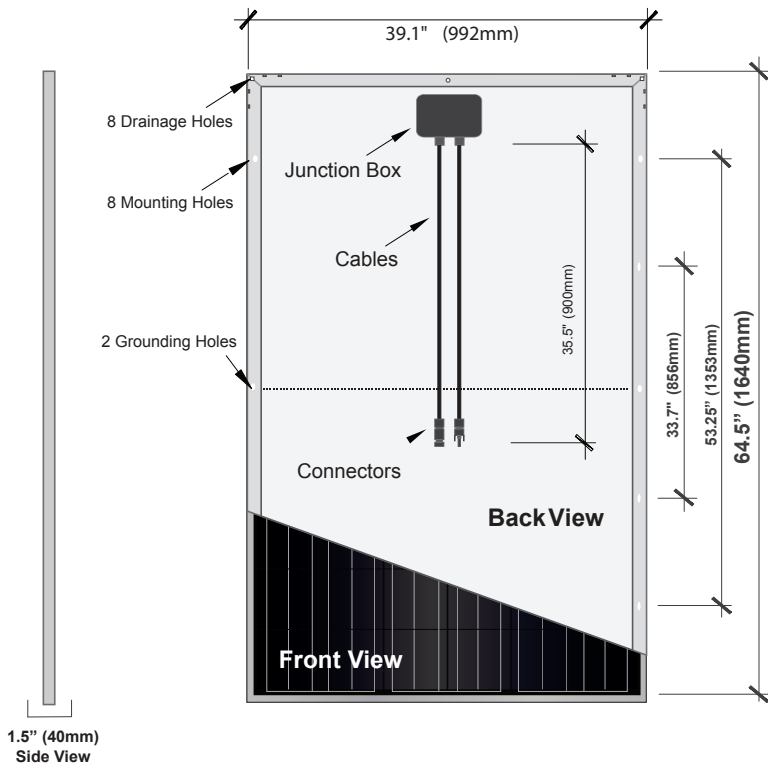
SAVINGS ON MODULE CLEANING



ecoSolargy inc.

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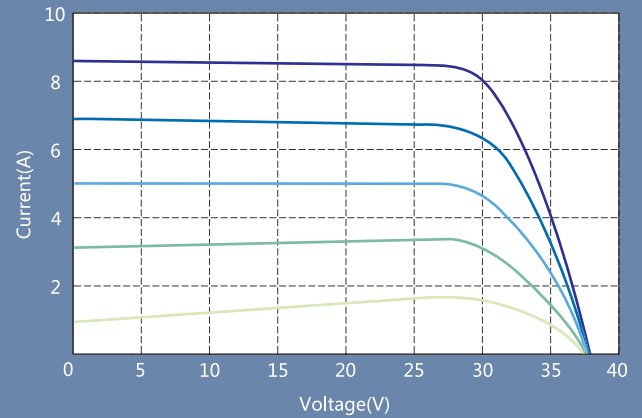
MONOCRYSTALLINE MODULE ECOXXS156M-60



## SPECIFICATIONS AND DATA

Panel Dimensions	64.5" x 39.1" x 1.5" (1640mm x 992mm x 40mm)
Weight	40.79 lbs (18.5kg)
Cells	60 x Monocrystalline 6"x 6" (156mm x 156mm)
Glass	Tempered Glass
Frame	Anodized Aluminum Alloy; Color: Black
Junction Box	IP Rated Junction Box with Bypass Diodes
Cable	4mm <sup>2</sup> solar cable (RHW AWG #12)
Connector	(MC4-Type) PV Plug Connectors
EVA	EVA
Backsheet	TPT
Modules per Pallet	26 Panels

## CURRENT-VOLTAGE & POWER-VOLTAGE CURVE



— STC IV Data — 800W/m<sup>2</sup> IV Data — 600W/m<sup>2</sup> IV Data — 400W/m<sup>2</sup> IV Data — 200W/m<sup>2</sup> IV Data

Values at Standard Test Conditions (STC) = Irradiance: 1000W/m<sup>2</sup>  
Air Mass: 1.5, Module Temperature 77 °F (25°C)

## TEMPERATURE COEFFICIENTS

Nominal Operating Cell Temperature (NOCT)	45±2°C
Temperature Coefficient of ISC (α)	0.06%/°C
Temperature Coefficient of VOC (β)	-0.30%/°C
Temperature Coefficient of Pmax	-0.42%/°C

## PERMISSIBLE OPERATING CONDITIONS

Operating Temperature	-40°F to +185°F (-40°C to +85°C)
Maximum Hail Diameter @ 43Mph (80km/h)	Up to 1" (25mm)
Wind Impact	≤2400 Pa
Snow Impact	≤5400 Pa

## ELECTRICAL DATA

Model	Pmax (0+3%)	Vmp	Imp	Voc	Isc	Module Efficiency	Max System Voltage	Standard Test Conditions
ECO250S156M-60	250W	31.01V	8.07A	37.80V	8.51A	15.40%	600V (UL)	Irradiance: 1000W/m <sup>2</sup> AM: 1.5 Temperature: 77°F (25°C)



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CAUTION: READ INSTALLATION INSTRUCTIONS BEFORE HANDLING, INSTALLING, & OPERATING THIS PRODUCT  
Technical Specifications & Data are subject to change without prior notice, contact ecoSolargy for latest data.  
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