

Monocrystalline Type



RNG— Mono

10/20/30/50/60/100/150/250W

Key Features

- High module conversion efficiency
- Top ranked PTC rating
- Quick and inexpensive mounting
- 100% EL testing on all Renogy modules
- No hot spots guaranteed



Electrical Characteristics

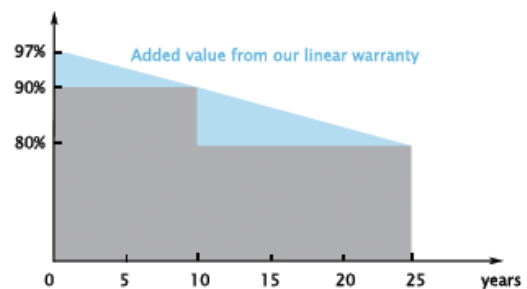
Maximum Power at STC (Pmax)	10W	20W	30W	50W	100W	150W	250W
Dimensions	7.3×16.3×1in	13.5×18.5×1in	13.5×23.8×1in	24.8×21.3×1in	47×21.3×1.4in	39.5×39×1.4in	64.5×39×1.6in
Optimum Operating Voltage (Vmp)	17.5V	17.5V	17.5V	18.5V	18.9V	17.9V	30.1V
Optimum Operating Current (Imp)	0.57A	1.14A	1.71A	2.70A	5.29A	8.38A	8.32A
Open-Circuit Voltage (Voc)	21.6V	21.6V	21.6V	22.7V	22.5V	22.5V	37.50V
Short-Circuit Current (Isc)	0.62A	1.23A	1.85A	2.84A	5.75A	9.05A	8.87A
Module Efficiency	13.03%	12.33%	14.37%	14.67%	15.47%	15.15%	15.37%
Weight	3.5lbs(1.58kg)	4.8lbs(2.2kg)	6.2lbs(2.8kg)	9.9lbs(4.5kg)	16.5lbs(7.5kg)	25.5lbs(11.5kg)	40lbs(18kg)

STC : Irradiance 1000 W/m², Module temperature 25°C, AM = 1.5

Application

- On-grid Rooftop/ Ground Mounted
- Residential/ Commercial/ Power Stations
- Compatible with Enphase Inverters

Linear Warranty



Safety Guide

Only qualified personnel should install or perform maintenance.
Please read the Renogy Installation Manual before installation;
Be aware of dangerously high DC voltage;
Do not install modules when wet or broken.

Renogy Modules' performance is guaranteed within 25 years from the time of purchase according to the above chart. Our Warranty includes:

1. 25 year transferrable power warranty : 5 years / 95%, 10 years / 90%, 25 years / 80%
2. 10 year material and workmanship warranty

Note:

3.5% in the first year, thereafter 0.68% per year, ending with 80.1% in the 25 year after the warranty start date.



RNG-10D

10W Monocrystalline Solar Panel

Electrical Data

Maximum Power at STC*	10 W
Optimum Operating Voltage (V_{mp})	17.5 V
Optimum Operating Current (I_{mp})	0.57 A
Open Circuit Voltage (V_{oc})	21.6 V
Short Circuit Current (I_{sc})	0.62 A
Module Efficiency	13.03%
Maximum System Voltage	600 VDC UL
Maximum Series Fuse Rating	5 A

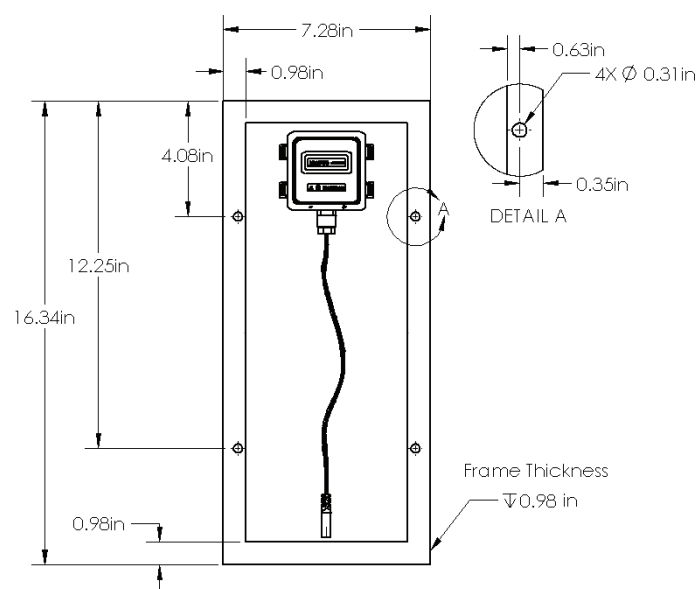
Thermal Characteristics

Operating Module Temperature	-40°C to +90°C
Nominal Operating Cell Temperature (NOCT)	47±2°C
Temperature Coefficient of Pmax	-0.23%/°C
Temperature Coefficient of Voc	-0.33%/°C
Temperature Coefficient of Isc	0.05%/°C

Junction Box

IP Rating	IP 67
Diode Type	HY 10A10
Number of Diodes	1 Diode(s)
Output Cables	14 AWG (3 ft long)

Module Diagram



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Mechanical Data

Solar Cell Type	Monocrystalline (2.0 x 1.14 in)
Number of Cells	36 (12 x 3)
Dimensions	7.3 x 16.3 x 1 in (185 x 415 x 25 mm)
Weight	3.5 lbs (1.58 kg)
Front Glass	Tempered Glass 0.13 in (3.2 mm)
Frame	Anodized Aluminium Alloy
Connectors	MC4 Connectors
Fire Rating	Class C

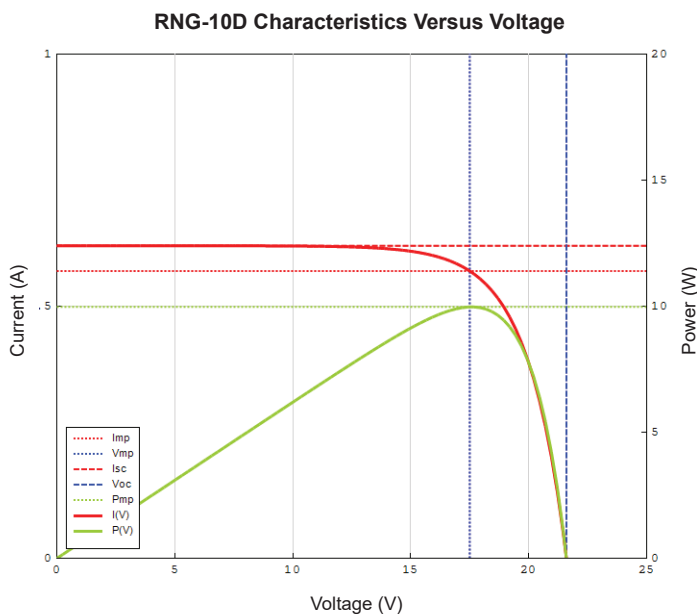
MC4 Connectors

Rated Current	30A
Maximum Voltage	1000VDC
Maximum AWG Size Range	10 AWG
Temperature Range	-40°F to 194°F
IP Rating	IP 67

Certifications



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RNG-20D

20W Monocrystalline Solar Panel

Electrical Data

Maximum Power at STC*	20 W
Optimum Operating Voltage (V_{mp})	17.5 V
Optimum Operating Current (I_{mp})	1.14 A
Open Circuit Voltage (V_{oc})	21.6 V
Short Circuit Current (I_{sc})	1.23 A
Module Efficiency	12.33%
Maximum System Voltage	600 VDC UL
Maximum Series Fuse Rating	10 A

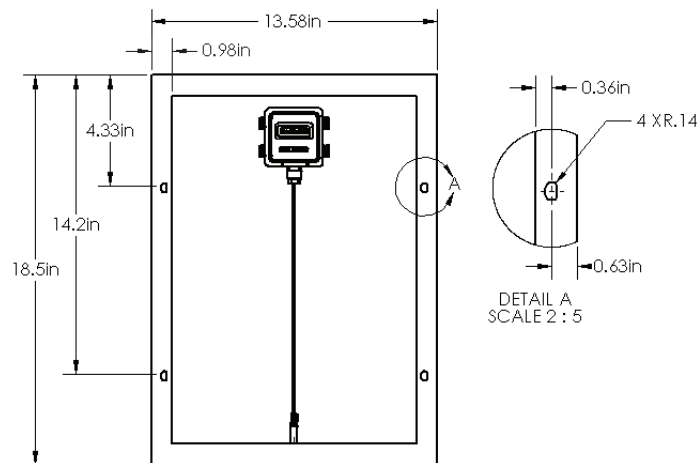
Thermal Characteristics

Operating Module Temperature	-40°C to +90°C
Nominal Operating Cell Temperature (NOCT)	47±2°C
Temperature Coefficient of Pmax	-0.23%/°C
Temperature Coefficient of Voc	-0.33%/°C
Temperature Coefficient of Isc	0.05%/°C

Junction Box

IP Rating	IP 67
Diode Type	HY 10A10
Number of Diodes	1 Diode(s)
Output Cables	14 AWG (3ft long)

Module Diagram



Mechanical Data

Solar Cell Type	Monocrystalline (6.1 x 0.75in)
Number of Cells	36 (2 x 18)
Dimensions	13.5 x 18.5 x 1 in (345 x 470 x 25 mm)
Weight	4.8 lbs (2.2 kg)
Front Glass	Tempered Glass 0.13 in (3.2 mm)
Frame	Anodized Aluminium Alloy
Connectors	MC4 Connectors
Fire Rating	Class C

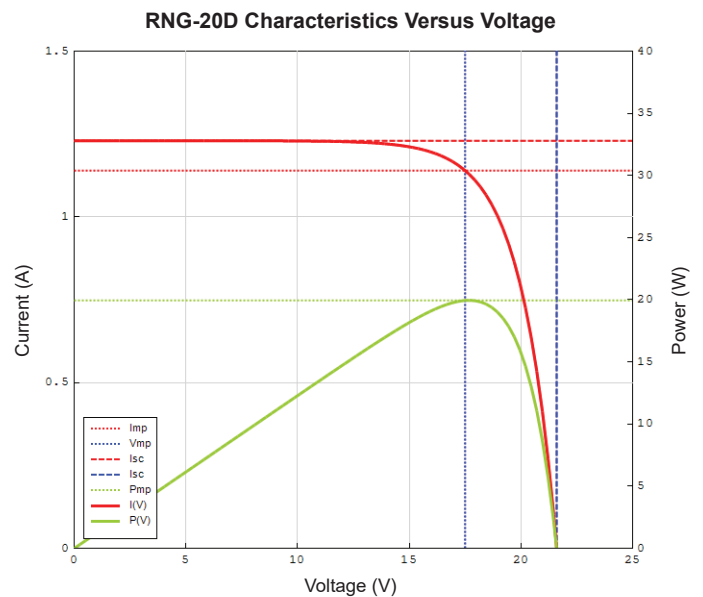
MC4 Connectors

Rated Current	30A
Maximum Voltage	1000VDC
Maximum AWG Size Range	10 AWG
Temperature Range	-40°F to 194°F
IP Rating	IP 67

Certifications



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RNG-30D

30W Monocrystalline Solar Panel

Electrical Data

Maximum Power at STC*	30 W
Optimum Operating Voltage (V_{mp})	17.5 V
Optimum Operating Current (I_{mp})	1.71 A
Open Circuit Voltage (V_{oc})	21.6 V
Short Circuit Current (I_{sc})	1.85 A
Module Efficiency	14.37%
Maximum System Voltage	600 VDC UL
Maximum Series Fuse Rating	5 A

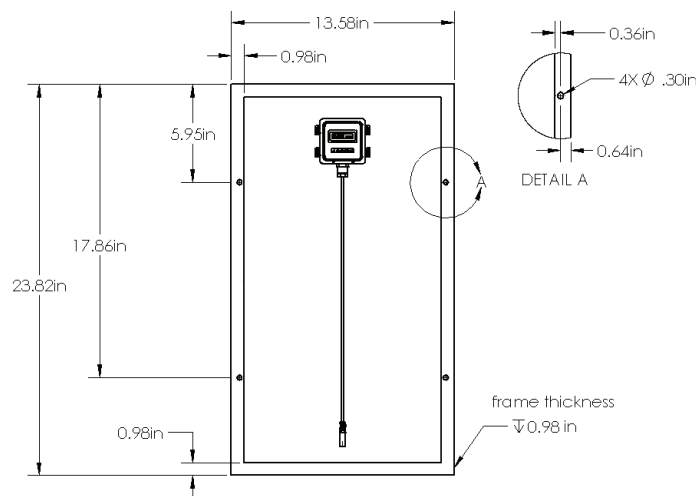
Thermal Characteristics

Operating Module Temperature	-40°C to +90°C
Nominal Operating Cell Temperature (NOCT)	47±2°C
Temperature Coefficient of Pmax	-0.23%/°C
Temperature Coefficient of Voc	-0.33%/°C
Temperature Coefficient of Isc	0.05%/°C

Junction Box

IP Rating	IP 67
Diode Type	HY 10A10
Number of Diodes	1 Diode(s)
Output Cables	14 AWG (3 ft long)

Module Diagram



Mechanical Data

Solar Cell Type	Monocrystalline (6.1 x 1.14 in)
Number of Cells	36 (2 x 18)
Dimensions	13.5 x 23.8 x 1 in (345 x 605 x 25 mm)
Weight	6.2 lbs (2.8 kg)
Front Glass	Tempered Glass 0.13 in (3.2 mm)
Frame	Anodized Aluminium Alloy
Connectors	MC4 Connectors
Fire Rating	Class C

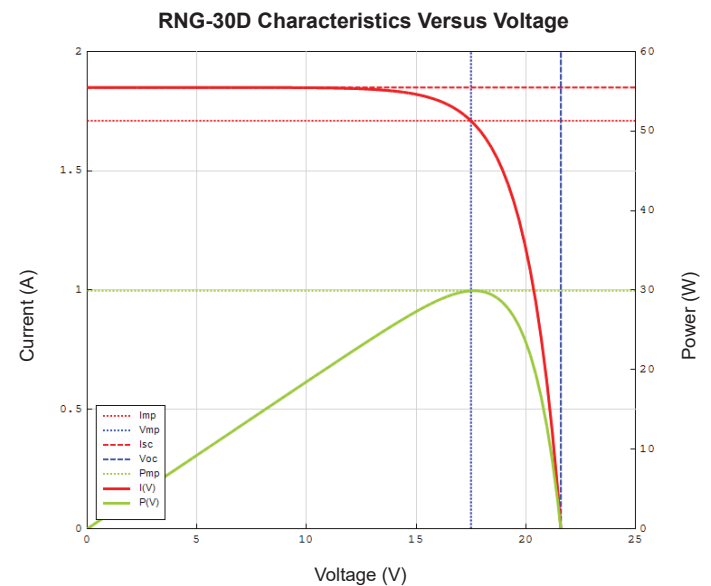
MC4 Connectors

Rated Current	30A
Maximum Voltage	1000VDC
Maximum AWG Size Range	10 AWG
Temperature Range	-40°F to 194°F
IP Rating	IP 67

Certifications



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RNG-50D

50W Monocrystalline Solar Panel

Electrical Data

Maximum Power at STC*	50 W
Optimum Operating Voltage (V_{mp})	18.5 V
Optimum Operating Current (I_{mp})	2.70A
Open Circuit Voltage (V_{oc})	22.7 V
Short Circuit Current (I_{sc})	2.84 A
Module Efficiency	14.67%
Maximum System Voltage	600 VDC UL
Maximum Series Fuse Rating	15 A

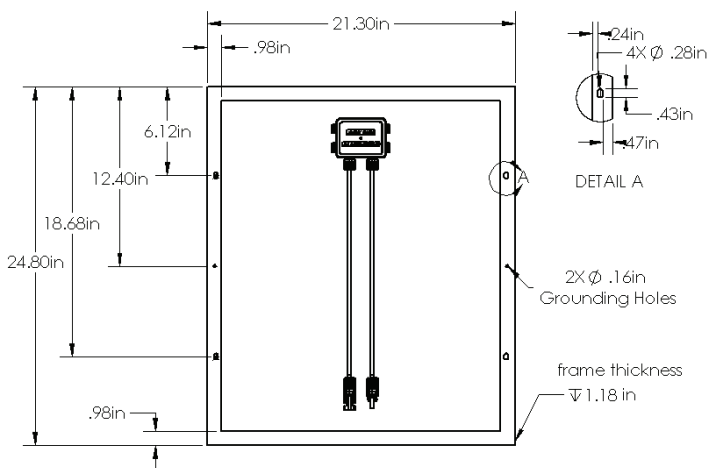
Thermal Characteristics

Operating Module Temperature	-40°C to +90°C
Nominal Operating Cell Temperature (NOCT)	47±2°C
Temperature Coefficient of Pmax	-0.23%/°C
Temperature Coefficient of Voc	-0.33%/°C
Temperature Coefficient of Isc	0.05%/°C

Junction Box

IP Rating	IP 67
Diode Type	HY 10SQ05
Number of Diodes	1 Diode(s)
Output Cables	12 AWG (1.12 ft long)

Module Diagram



Mechanical Data

Solar Cell Type	Monocrystalline (4.9 x 2.5 in)
Number of Cells	36 (4 x 9)
Dimensions	24.8 x 21.3 x 1.2 in (630 x 541 x 30 mm)
Weight	9.9 lbs (4.5 kg)
Front Glass	Tempered Glass 0.13 in (3.2 mm)
Frame	Anodized Aluminium Alloy
Connectors	MC4 Connectors
Fire Rating	Class C

MC4 Connectors

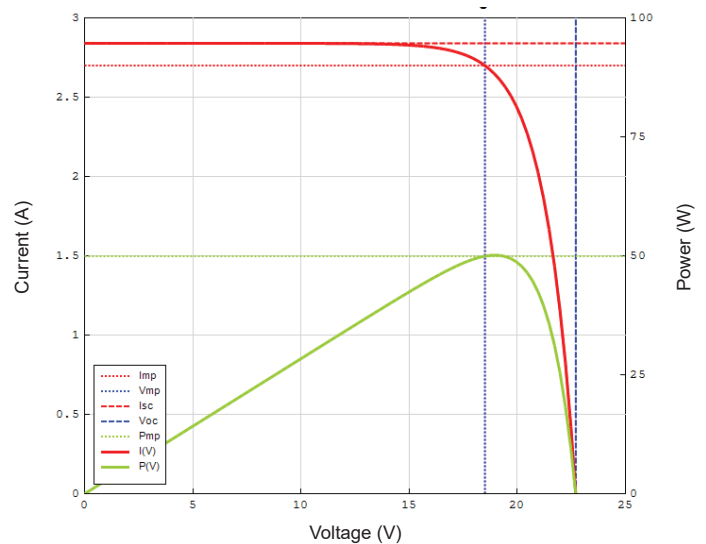
Rated Current	30A
Maximum Voltage	1000VDC
Maximum AWG Size Range	10 AWG
Temperature Range	-40°F to 194°F
IP Rating	IP 67

Certifications



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RNG-50D Characteristics Versus Voltage



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RNG-100D

100W Monocrystalline Solar Panel

Electrical Data

Maximum Power at STC*	100 W
Optimum Operating Voltage (V_{mp})	18.9 V
Optimum Operating Current (I_{mp})	5.29 A
Open Circuit Voltage (V_{oc})	22.5 V
Short Circuit Current (I_{sc})	5.75 A
Module Efficiency	15.47%
Maximum System Voltage	600 VDC UL
Maximum Series Fuse Rating	15 A

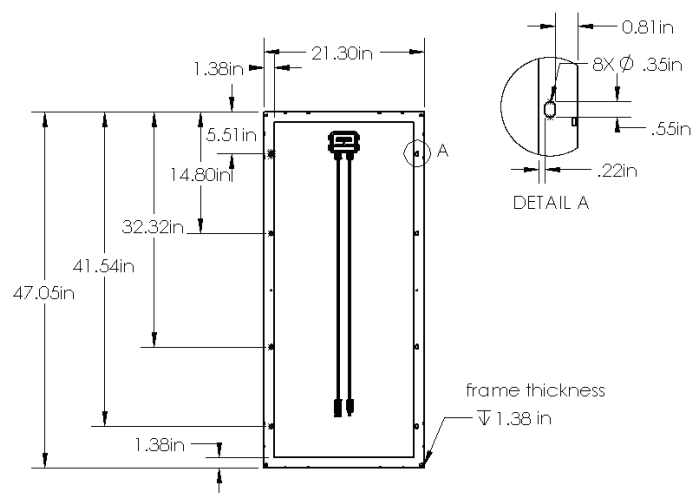
Thermal Characteristics

Operating Module Temperature	-40°C to +80°C
Nominal Operating Cell Temperature (NOCT)	47±2°C
Temperature Coefficient of Pmax	-0.44%/°C
Temperature Coefficient of Voc	-0.30%/°C
Temperature Coefficient of Isc	0.04%/°C

Junction Box

IP Rating	IP 67
Diode Type	HY 10SQ050
Number of Diodes	2 Diode(s)
Output Cables	12 AWG (2.10 ft long)

Module Diagram



Mechanical Data

Solar Cell Type	Monocrystalline (4.92 x 4.92 in)
Number of Cells	36 (4 x 9)
Dimensions	47 x 21.3 x 1.4 in (1195 x 541 x 35 mm)
Weight	16.5 lbs (7.5 kg)
Front Glass	Tempered Glass 0.13 in (3.2 mm)
Frame	Anodized Aluminium Alloy
Connectors	MC4 Connectors
Fire Rating	Class C

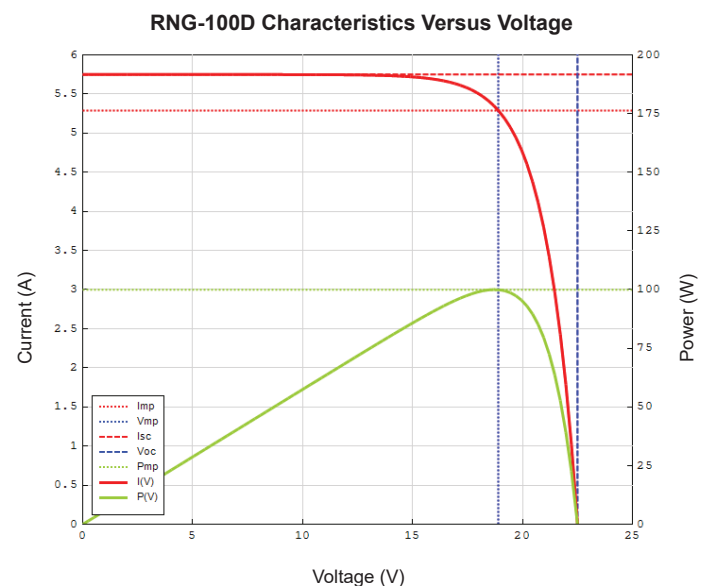
MC4 Connectors

Rated Current	30A
Maximum Voltage	1000VDC
Maximum AWG Size Range	10 AWG
Temperature Range	-40°F to 194°F
IP Rating	IP 67

Certifications



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RNG-150D

150W Monocrystalline Solar Panel

Electrical Data

Maximum Power at STC*	150 W
Optimum Operating Voltage (V_{mp})	17.9 V
Optimum Operating Current (I_{mp})	8.38 A
Open Circuit Voltage (V_{oc})	22.5 V
Short Circuit Current (I_{sc})	9.05 A
Module Efficiency	15.15%
Maximum System Voltage	600 VDC UL
Maximum Series Fuse Rating	15 A

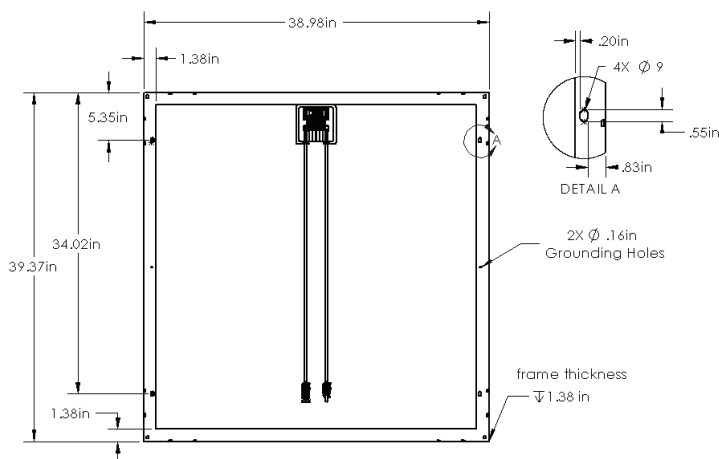
Thermal Characteristics

Operating Module Temperature	-40°C to +80°C
Nominal Operating Cell Temperature (NOCT)	47±2°C
Temperature Coefficient of Pmax	-0.44%/°C
Temperature Coefficient of Voc	-0.30%/°C
Temperature Coefficient of Isc	0.04%/°C

Junction Box

IP Rating	IP 67
Diode Type	HY 10SQ050
Number of Diodes	2 Diode(s)
Output Cables	12 AWG (2.40 ft long)

Module Diagram



Mechanical Data

Solar Cell Type	Monocrystalline (6.10 x 6.10in)
Number of Cells	36 (6 x 6)
Dimensions	39.5 x 39 x 1.4 in (1000 x 990 x 35 mm)
Weight	25.5 lbs (11.5 kg)
Front Glass	Tempered Glass 0.13 in (3.2 mm)
Frame	Anodized Aluminium Alloy
Connectors	MC4 Connectors
Fire Rating	Class C

MC4 Connectors

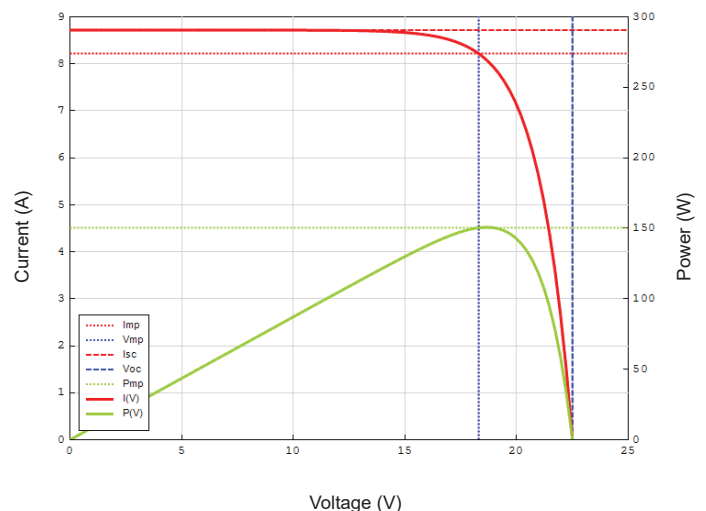
Rated Current	30A
Maximum Voltage	1000VDC
Maximum AWG Size Range	10 AWG
Temperature Range	-40°F to 194°F
IP Rating	IP 67

Certifications



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RNG-150D Characteristics Versus Voltage



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