



# SUMMITSERIES



Crown Renewable Energy's Summit Series modules sit atop the competition when it comes to efficiency. The unique features of the cells result in conversion efficiencies of up to 20%. These monocrystalline modules are made with back-contact solar cells, so they not only perform at the top of their class, they look good doing it.

Crown modules are made with proven materials, ensuring long life and maximum performance. Crown prides itself on having first-rate quality control and has certified its manufacturing facilities to ISO9001.

**100W, 95W & 90W Modules**

- \* Photovoltaic modules made with back-contact cells
- \* Cells with an industry-leading efficiency of up to 20%
- \* 10% smaller, on average, than comparable modules
- \* Manufactured in ISO9001 facility
- \* Warranty of 20 years for output and 5 years for workmanship

**EMPEROR**  
**EFFICIENT**  
**MODULES**



# SUMMITSERIES

100W, 95W & 90W Modules  
Monocrystalline Silicon

## ELECTRICAL CHARACTERISTICS

| Module Nameplate Rating | No. of Cells | Max Power (Pmax) | Max Power Voltage (Vmp) | Max Power Current (Imp) | Open Circuit Voltage (Voc) | Short Circuit Current (Isc) | Series Fuse Rating | Module Efficiency | Power Area Rating (PAR) | Max Power Tolerance |
|-------------------------|--------------|------------------|-------------------------|-------------------------|----------------------------|-----------------------------|--------------------|-------------------|-------------------------|---------------------|
| 90                      | 32           | 90 W             | 17.6 V                  | 5.12 A                  | 21.3 V                     | 5.5 A                       | 14 A               | 16.5%             | 15.3 $\frac{W}{Ft^2}$   | +/-5%               |
| 95                      | 32           | 95 W             | 17.6 V                  | 5.4 A                   | 21.5 V                     | 5.7 A                       | 14 A               | 17.4%             | 16.2 $\frac{W}{Ft^2}$   | +/-5%               |
| 100                     | 32           | 100 W            | 17.6 V                  | 5.7 A                   | 21.7 V                     | 5.9 A                       | 14 A               | 18.3%             | 17.0 $\frac{W}{Ft^2}$   | +/-5%               |

## TEMPERATURE CO-EFFICIENTS

|         |             |
|---------|-------------|
| Power   | -0.38 %/°C  |
| Voltage | -60.8 mV/°C |
| Current | 3.5 mA/°C   |

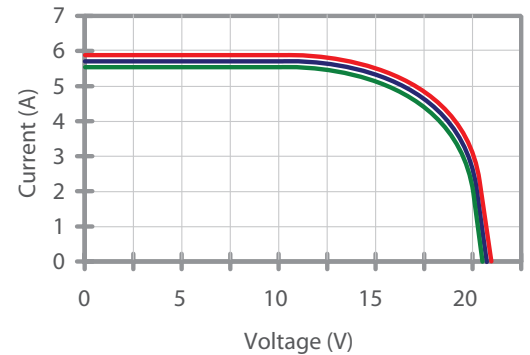
## ARRAY SPECIFICATIONS

|                                  |        |
|----------------------------------|--------|
| N. American Max System Voltage   | 600 V  |
| International Max System Voltage | 1000 V |

## MECHANICAL CHARACTERISTICS

|                                   |                         |
|-----------------------------------|-------------------------|
| Dimensions                        | 40.82" x 20.74" x 1.37" |
| Weight                            | 16.3 lbs                |
| Thickness, including junction box | 1.37"                   |
| Frame                             | > 10µm clear anodized   |

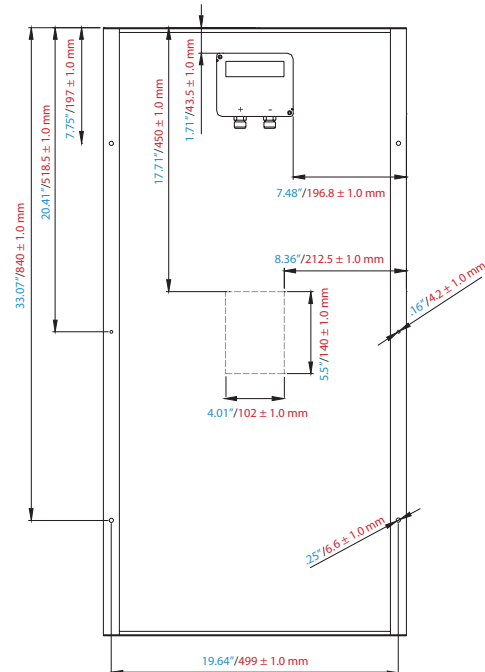
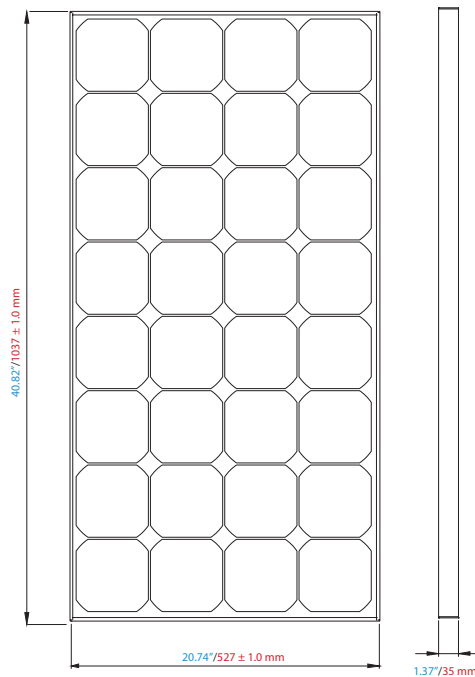
## IV CURVES



■ 100 W Module ■ 95 W Module ■ 90 W Module

Note: All electrical parameters are measured at standard test conditions (irradiance of 1000W/m<sup>2</sup>, AM 1.5G, cell temperature 77°F/25°C). This module requires positive system grounding. Please refer to manufacturer's suggested installation instructions.

100W, 95W & 90W Modules



Specifications and design are subject to change without notice. Crown Renewable Energy takes no responsibility for any defects that may occur in equipment using any CRE devices. Contact CRE to obtain the latest product manuals before using any CRE device.