SUNIVA OPTIMUS® SERIES
MONOCRYSTALLINE SOLAR MODULES

OPT SERIES: OPT 72 CELL MODULES (SILVER FRAME)

Optimus® modules are known for their superior quality and long-term reliability. These high-powered modules consist of Suniva’s premium ARTisun® Select cell technology and are designed and manufactured in the U.S.A. and North America using our pioneering ion implantation technology. Suniva’s high power-density Optimus modules provide excellent performance and value.

FEATURES

- Utilizes our premier American-made cell technology, ARTisun Select®
- Superior performance and reliability; enhanced stress tests conducted at Fraunhofer ISE
- Module families ranging from 325-340W
- Positive only power tolerance
- Marine grade aluminum frame with hard anodized coating
- Certified PID-free by PV Evolution Labs (PVEL)
- Made in North America
- Qualifies for Ex-Im Financing
- 1000V UL
- 25 year linear power warranty; 10 year product warranty

CERTIFICATIONS

MANUFACTURED IN
Georgia & Michigan

www.suniva.com
OPTIMUS SERIES: OPT 72 CELL MODULES

ELECTRICAL DATA (NOMINAL)
The rated power may only vary by -0/+10W and all other electrical parameters by ±5%

<table>
<thead>
<tr>
<th>Module Type</th>
<th>OPT325-72-4-100</th>
<th>OPT330-72-4-100</th>
<th>OPT335-72-4-100</th>
<th>OPT340-72-4-100</th>
</tr>
</thead>
<tbody>
<tr>
<td>Power Classification</td>
<td>325 W</td>
<td>330 W</td>
<td>335 W</td>
<td>340 W</td>
</tr>
<tr>
<td>Module Efficiency (%)</td>
<td>16.66%</td>
<td>16.92%</td>
<td>17.18%</td>
<td>17.43%</td>
</tr>
<tr>
<td>Voltage at Max. Power Point (Vmp)</td>
<td>37.5 V</td>
<td>37.6 V</td>
<td>37.7 V</td>
<td>37.8 V</td>
</tr>
<tr>
<td>Current at Max. Power Point (Imp)</td>
<td>8.67 A</td>
<td>8.78 A</td>
<td>8.89 A</td>
<td>8.99 A</td>
</tr>
<tr>
<td>Open Circuit Voltage (Voc)</td>
<td>45.8 V</td>
<td>45.9 V</td>
<td>45.9 V</td>
<td>46.0 V</td>
</tr>
<tr>
<td>Short Circuit Current (Isc)</td>
<td>9.42 A</td>
<td>9.54 A</td>
<td>9.66 A</td>
<td>9.78 A</td>
</tr>
</tbody>
</table>

The electrical data apply to standard test conditions (STC): Irradiance of 1000 W/m² with AM 1.5 spectra at 25°C.

CHARACTERISTIC DATA

Type of Solar Cell
High-efficiency ARTisun Select cells, 3 and 5 busbar options available

Frame
Silver anodized aluminum alloy

Glass
Tempered (low-iron), anti-reflective coating

Junction Box
NEMA IP67 rated; 6 internal diodes

Cable & Connectors
12 AWG (4 mm²) PV Wire with multiple connector options available; cable length 1300 mm

MECHANICALS

Cells / Module
72 (6 x 12)

Module Dimensions
1970 x 990 mm (77.6 x 39 in.)

Module Thickness (Depth)
38 mm (1.5 in.)

Approximate Weight
23 kg (50.7 lbs.)

TEMPERATURE COEFFICIENTS

Voltage $\beta$, Voc (%/°C) -0.335

Current $\alpha$, Isc (%/°C) +0.047

Power $\gamma$, Pmax (%/°C) -0.420

NOCT Avg
(+- 2 °C) 46.0

LIMITS

Max. System Voltage
1000 VDC for IEC, 1000 VDC for UL

Max Series Fuse Rating
15 Amps

Operating Module Temperature
-40°C to +85°C (-40°F to +185°F)

Storm Resistance/Static Load
Tested to IEC 61215 for loads of 2400 Pa (50 psf); hail and wind resistant

Suniva® reserves the right to change the data at any time. View manual at suniva.com.

‘UV 90 kWh, TC 400, DH 2000. “Tests were conducted on module type OPT 60 silver frame.

Please read installation manual before installing or working with module.