

# itek ENERGY HE SOLAR MODULES

PERFORMANCE - QUALITY - AFFORDABLE

- BUILT IN WASHINGTON USING CUTTING EDGE HIGH EFFICIENCY MONOCRYSTALLINE CELLS
- 25 - YEAR POWER OUTPUT WARRANTY
- 10 - YEAR WORKMANSHIP WARRANTY
- EXCEPTIONAL POWER DENSITY ( $W/m^2$ )

## GENERAL DATA

<b>Cell type</b>	<ul style="list-style-type: none"> <li>• 60 high-efficiency monocrystalline p-type cells</li> <li>• 6x10 cell matrix</li> </ul>
<b>Solar Glass</b>	<ul style="list-style-type: none"> <li>• Ultra-clear anti-reflective treatment</li> <li>• Tempered, with low iron content</li> <li>• Anti-glare prismatic subsurface texture</li> </ul>
<b>Backsheet</b>	<ul style="list-style-type: none"> <li>• Multi-layered</li> <li>• Engineered adhesion for maximum weather protection</li> </ul>
<b>Frame</b>	<ul style="list-style-type: none"> <li>• High-strength corrosion-resistant anodized aluminum, available in black or clear finish</li> <li>• Compatible with standard racking, accommodating both top-down clamps and bottom-flange mounting</li> <li>• Micro-inverter and DC optimizer attachment points</li> </ul>
<b>Cable</b>	<ul style="list-style-type: none"> <li>• 42" 90C 12 AWG PV wire</li> <li>• 1000 VDC MC4 connector wire</li> </ul>
<b>Junction Box</b>	<ul style="list-style-type: none"> <li>• 3 bypass diodes</li> </ul>
<b>Grounding</b>	<ul style="list-style-type: none"> <li>• Certified for Wiley Electronics WEEB™ grounding clips</li> <li>• Eight standard grounding locations per module for reduced ground wire length</li> </ul>

## MECHANICAL DATA

<b>Dimensions</b>	39.1" X 64.8" X 2"
<b>Weight</b>	43 lbs

<b>Operational Temperature</b>	-40...+ 90°C
<b>Maximum System Voltage</b>	1000 VDC
<b>Design Load (UL 1703)</b>	up to 113 lbs/ft <sup>2</sup>
<b>Maximum Load (UL 1703)</b>	551 kg/m <sup>2</sup> (5400 Pa)
<b>Maximum Wind Load</b>	113 lbs/ft <sup>2</sup>
<b>Max Series Fuse Rating</b>	15A
<b>Max Reverse Current</b>	15A

## MAXIMUM RATINGS

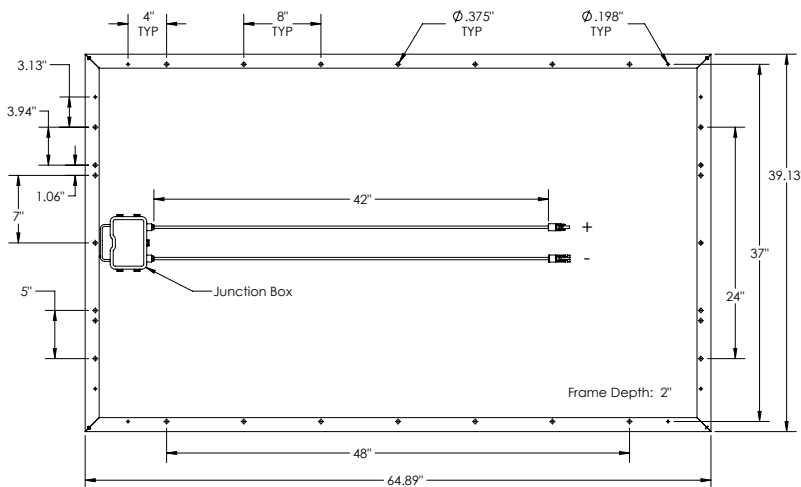
NOTE: SPECIFICATIONS SUBJECT TO CHANGE WITHOUT NOTICE

## TEMPERATURE RATINGS

<b>Nominal Operating Cell Temperature (NOCT)</b>	48.20 °C
<b>Temperature Coefficient of P<sub>MPP</sub></b>	- 0.47 %/°C
<b>Temperature Coefficient of V<sub>OC</sub></b>	- 0.32 %/°C
<b>Temperature Coefficient of I<sub>SC</sub></b>	+ 0.04 %/°C
<b>Temperature Coefficient of V<sub>MPP</sub></b>	- 0.45 %/°C

## QUALIFICATIONS

<b>UL Listing</b>	UL 1703
<b>Fire Rating</b>	Type 2



## ELECTRICAL DATA\*

	IT 270 HE	IT 275 HE	IT 280 HE	IT 285 HE	IT 290 HE	IT 295 HE	IT 300 HE	IT 305 HE	IT 310 HE
<b>Maximum Power - P<sub>max</sub> (Wp)</b>	270	275	280	285	290	295	300	305	310
<b>Maximum Power Voltage - V<sub>MPP</sub> (V)</b>	32.0	32.1	32.3	32.4	32.6	32.8	32.9	33.1	33.2
<b>Maximum Power Current - I<sub>MPP</sub> (A)</b>	8.4	8.5	8.6	8.7	8.8	8.9	9.0	9.1	9.2
<b>Open Circuit Voltage - V<sub>OC</sub> (V)</b>	38.9	39.0	39.2	39.3	39.5	39.7	39.8	40.0	40.1
<b>Short Circuit Current - I<sub>SC</sub> (A)</b>	9.1	9.2	9.3	9.4	9.5	9.6	9.7	9.8	9.9
<b>Module Efficiency</b>	16.49%	16.80%	17.10%	17.41%	17.71%	18.02%	18.32%	18.63%	18.94%

\*Electrical characteristics may vary within ±2% of the indicated values at Standard Test Conditions (STC): Irradiance of 1,000W/m<sup>2</sup>, AM 1.5 spectrum, cell temperature at 25°C (77°F)

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