

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

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

MECHANICAL DATA

Dimensions	39.1" X 64.8" X 2"
Weight	43 lbs

MAXIMUM RATINGS

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

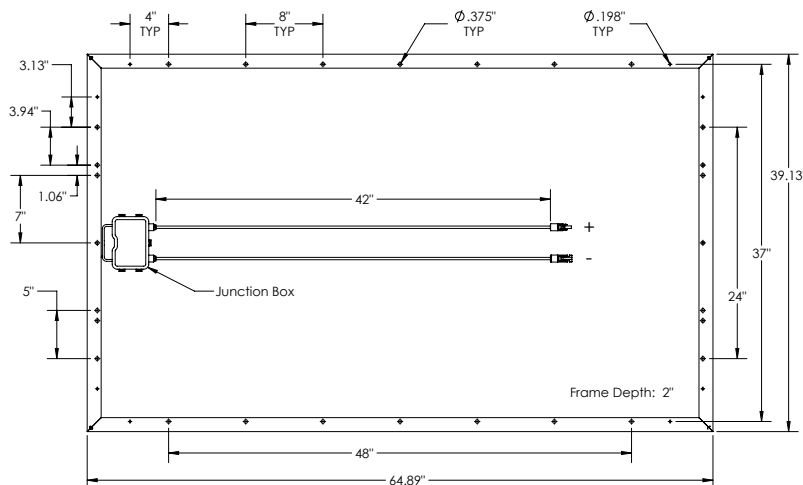
NOTE: SPECIFICATIONS SUBJECT TO CHANGE WITHOUT NOTICE

TEMPERATURE RATINGS

Nominal Operating Cell Temperature (NOCT)	48.20 °C
Temperature Coefficient of P_{MPP}	- 0.47 %/°C
Temperature Coefficient of V_{OC}	- 0.32 %/°C
Temperature Coefficient of I_{SC}	+ 0.04 %/°C
Temperature Coefficient of V_{MPP}	- 0.45 %/°C

QUALIFICATIONS

UL Listing	UL 1703
Fire Rating	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
Maximum Power - P_{MAX} (Wp)	270	275	280	285	290	295	300	305	310
Maximum Power Voltage - V_{MPP} (V)	32.0	32.1	32.3	32.4	32.6	32.8	32.9	33.1	33.2
Maximum Power Current - I_{MPP} (A)	8.4	8.5	8.6	8.7	8.8	8.9	9.0	9.1	9.2
Open Circuit Voltage - V_{OC} (V)	38.9	39.0	39.2	39.3	39.5	39.7	39.8	40.0	40.1
Short Circuit Current - I_{SC} (A)	9.1	9.2	9.3	9.4	9.5	9.6	9.7	9.8	9.9
Module Efficiency	16.49%	16.80%	17.10%	17.41%	17.71%	18.02%	18.32%	18.63%	18.94%

*Electrical characteristics may vary within $\pm 2\%$ of the indicated values at Standard Test Conditions (STC): Irradiance of 1,000W/m², AM 1.5 spectrum, cell temperature at 25°C (77°F)



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