

itek ENERGY SE SOLAR MODULES

Design & Engineering Data



Building Solar | Powering The Future

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
Cable	<ul style="list-style-type: none"> 42" 90C 12 AWG PV wire
Junction Box	<ul style="list-style-type: none"> 3 bypass diodes 1000 VDC MC4 connectors
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

QUALIFICATIONS

UL Listing	UL 1703
Fire Rating	Type 2
PID Free	96 + hours



Certified Made in Washington

ELECTRICAL DATA*

	280 SE	285 SE	290 SE	295 SE	300 SE
Maximum Power - P_{MAX} (Wp)	280	285	290	295	300
Maximum Power Voltage - V_{MPP} (V)	32.3	32.4	32.6	32.8	32.9
Maximum Power Current - I_{MPP} (A)	8.6	8.7	8.8	8.9	9.0
Open Circuit Voltage - V_{OC} (V)	39.2	39.3	39.5	39.7	39.8
Short Circuit Current - I_{SC} (A)	9.3	9.4	9.5	9.6	9.7
Module Efficiency	16.70%	16.99%	17.29%	17.59%	17.89%

NOTE: SPECIFICATIONS SUBJECT TO CHANGE WITHOUT NOTICE

MECHANICAL DATA

Dimensions	1001mm X 1675mm X 50mm
Weight	43 lbs

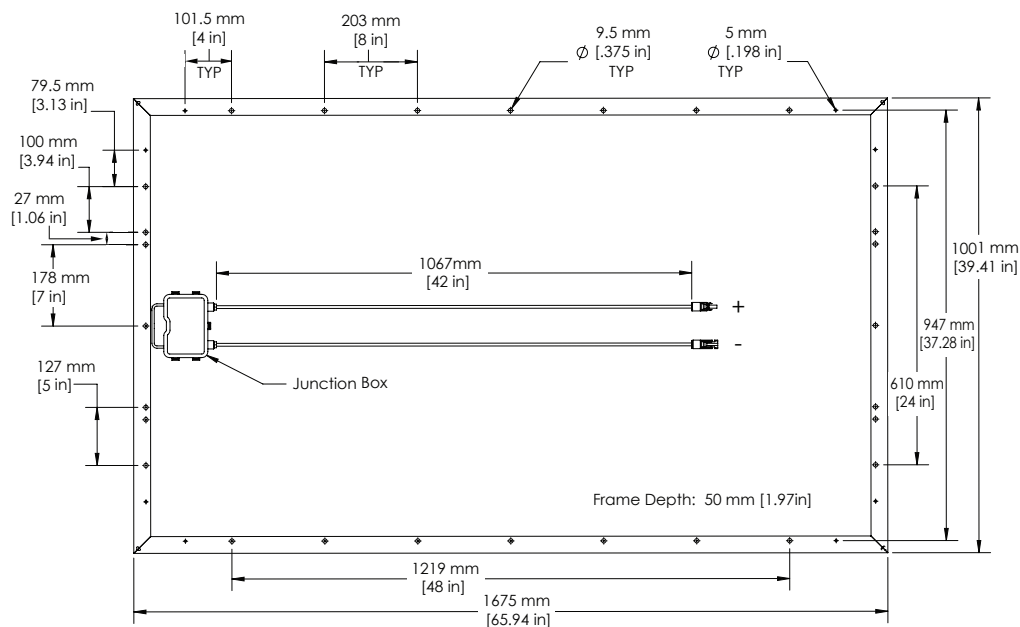
MAXIMUM RATINGS

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

TEMPERATURE RATINGS

Nominal Operating Cell Temperature (NOCT)	45.01°C
Temperature Coefficient of P_{MPP}	-0.39%/°C
Temperature Coefficient of V_{OC}	-0.29%/°C
Temperature Coefficient of I_{SC}	+0.04%/°C
Temperature Coefficient of V_{MPP}	-0.38%/°C

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



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