



Built-in MPPT

Cell Independent Parallel Architecture

Power Warranted 92.2% of Max-25yrs

Integrated Racking Option Available

CELL-INDEPENDENT

Ten K Solar® cells are connected in a matrix (serial and parallel connections) that allows current to flow through multiple pathways within a module, eliminating any single failure point. Combined with integrated power electronics, this architecture allows optimization of cell level performance.

SMART MODULE

Because of the cell level control, partial shading or soiling won't cripple module production. Ten K's Apex Module performance characteristics are fundamentally superior to yesterday's PV modules which can see output decline to zero with just limited shading, and can develop dangerous hotspots when exposed to reflection. The Apex Module is designed to outperform yesterday's PV modules in all conditions, period.

APPLICATIONS



COMMERCIAL



GROUND MOUNT



CARPORT



STORAGE READY



MECHANICAL SPECIFICATIONS

Module Size	2018 × 1298 mm
Frame Extension	48.5 mm
Weight	69 lb
Cells	200 Half Cells
Bypass Diode	None
Front Glass	3.2 mm Tempered
Backsheet Material	PET-covered Aluminum
Frame Material	Aluminum
Load Capacity	50 PSF / 2400 Pa
Connector Type	Utility-Grade Tap
Wire Type	#1 or #2 AWG USE-2
Hail Impact	1.8" direct at 68 mph

WARRANTY

Product	25-Year
Power	3% First Year. 0.2% Linear Degradation per year after; 92.2% year-25 minimum.

SHIPPING INFORMATION

Max per Pallet	31
Pallet Size	88" × 55"
Pallet Weight	2300 lb

MODULE TYPE

APEX 440

APEX 500

PERFORMANCE SPECIFICATIONS (WITH INTEGRATED ELECTRONICS)

Peak Power (P _{MAX})	440 W	500 W
Cell Type	Poly-Crystalline	Mono-Crystalline (PERC)
Power Tolerance	± 3%	± 3%
Module Efficiency	16.8%	19.1%
Max Current Output (I _{MP})	7.5 A	9.1 A
Operating DC Voltage (V _{MP})	35 – 59 V	35 – 59 V

TEMPERATURE CHARACTERISTICS (BEFORE ELECTRONICS)

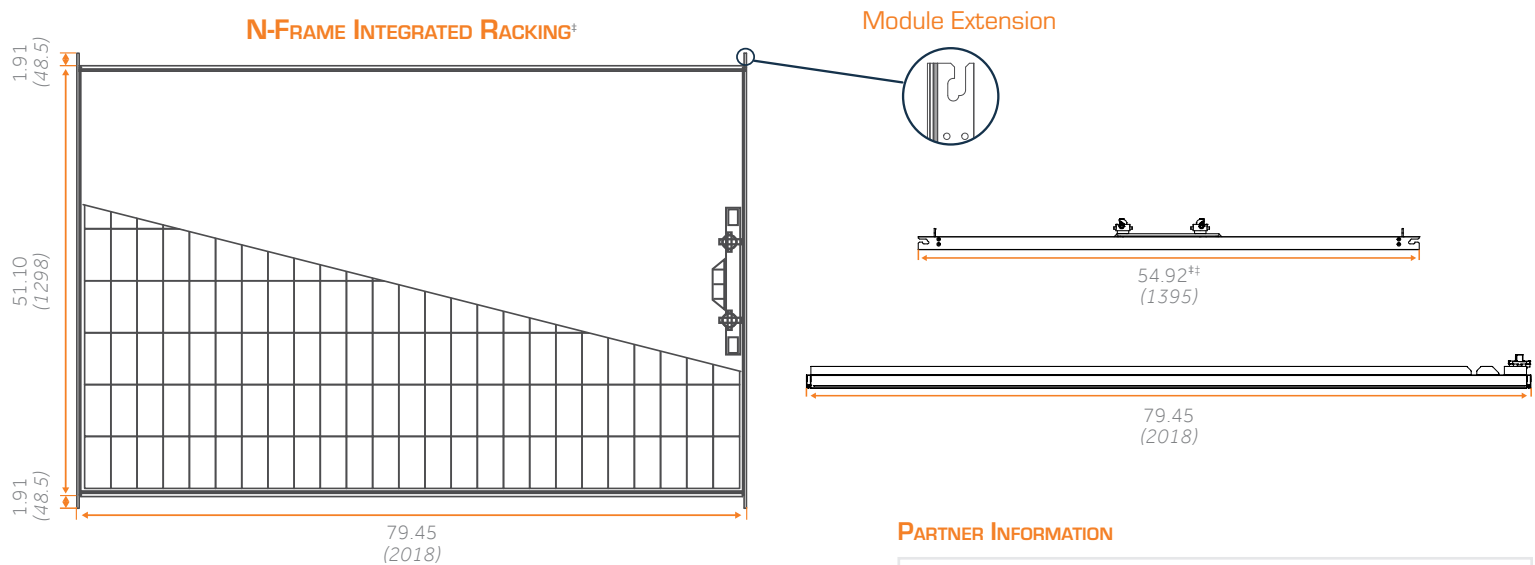
Operating Temperature Range	-40 to 85 °C	-40 to 85 °C
Module NOCT	46 °C	46 °C
Temperature Coefficient (P _{MP})	-0.42% / °C	-0.42% / °C

SAFETY CHARACTERISTICS

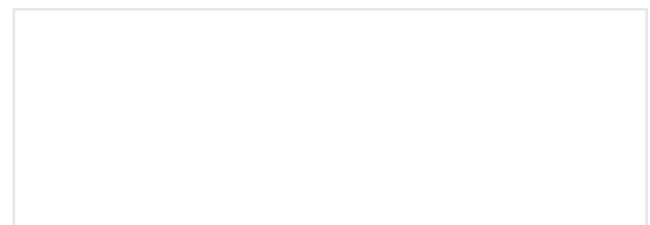
Ground-Fault Detect	Integrated (Compatible w/Inverter GFDI)	
Arc-Fault Detect	Integrated	
Internal Ground Fault Limit	500 mA	
NEC 2014 690.12	Integrated Rapid Shutdown	
UL 1703 Fire Rating	Type 1 Module	Type 1 Module

CERTIFICATIONS AND LISTINGS

Model Listing Name	XT-A-440	XT-M-500
UL 1741, UL 1703	Certified	Certified
IEC 61215, EN 61730	Pending	Pending



PARTNER INFORMATION



Measurements in inches (mm)

* Integrated N-Frame optimized for Ten K racking solutions

**N-frame extension length

Patents Pending. Specifications subject to change without notice.

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