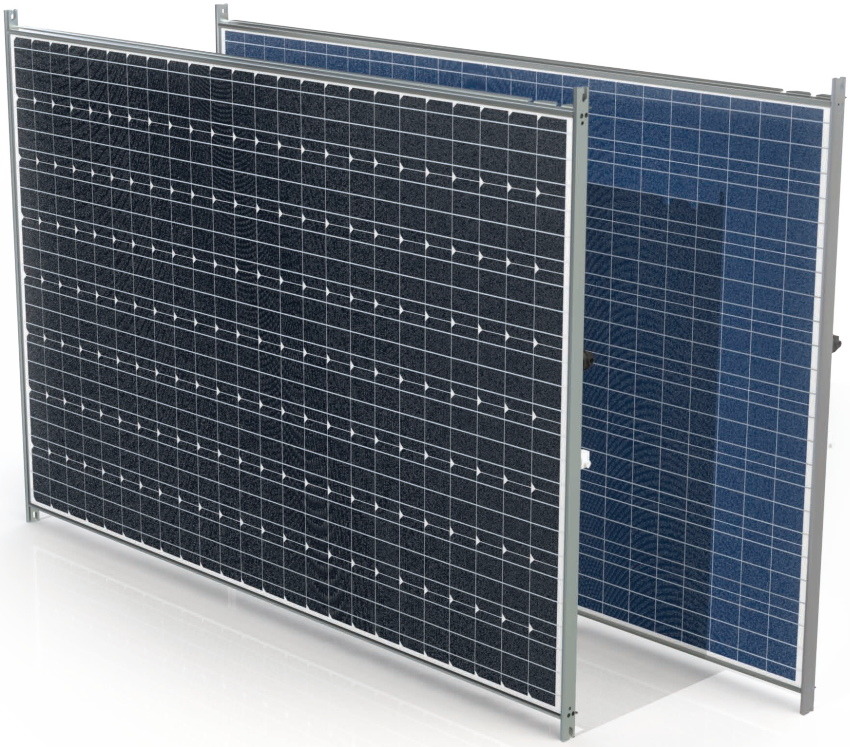
GLOBAL RAIS™
Energy & Storage Solutions

APEX™ PV Module

PRODUCT DATA SHEET



515W MODULE

Built-in MPPT

Cell-Independent Parallel Architecture

Power Warranted 92.2% of Max-25yrs

Integrated Racking

Cell-Independent

Global RAIS® 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. Global RAIS' 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

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Energy & Storage Solutions

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PRODUCT DATA SHEET

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

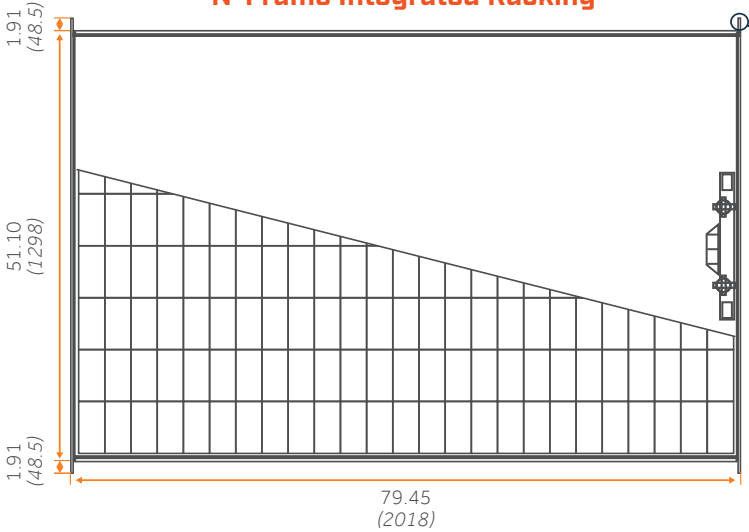
Product	25-Year
Power	3% First Year. 0.2% Linear Degradation per year after; 92.2% year-25 minimum.

Shipping Information

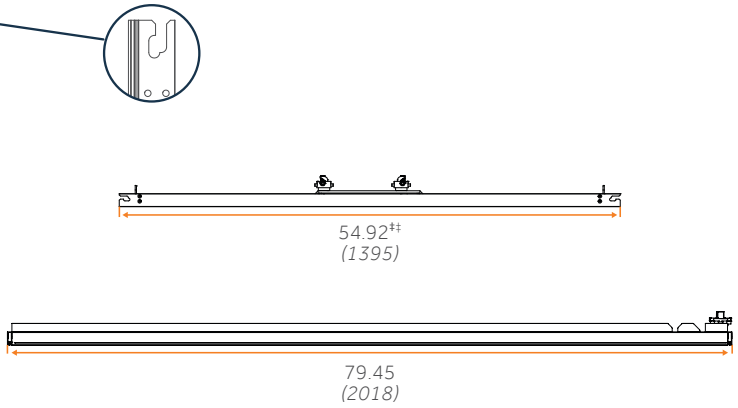
Max per Pallet	32
Pallet Size	88" × 55"
Pallet Weight	2300 lb

Module Type	Apex 450	Apex 515
Performance Specifications (with integrated electronics)		
Peak Power (PMAX)	450 W	515 W
Cell Type	Poly-Crystalline	Mono-Crystalline (PERC)
Power Tolerance	± 3%	± 3%
Module Efficiency	17.2%	19.7%
Max Current Output (IMP)	7.5 A	9.1 A
Operating DC Voltage (VMP)	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 (PMP)	-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 690.11	Integrated Rapid Shutdown	
UL 1703 Fire Rating	Type 1 Module	Pending
Certifications and Listings		
Model Listing Name	XT-A	XT-M
UL 1741, UL 1703	Certified	Pending
IEC 61215, EN 61730	Pending	Pending

N-Frame Integrated Racking‡



Module Extension



Partner Information

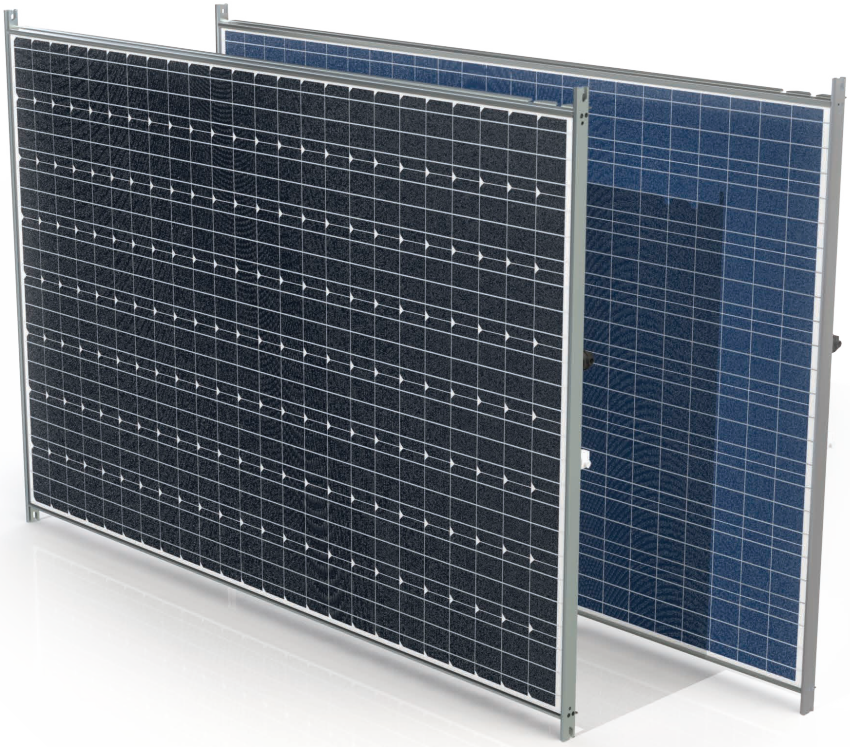
Measurements in inches *(mm)*
‡ Integrated N-Frame optimized for Global RAIS racking solutions
‡‡N-frame extension length

Patented Technology. Specifications subject to change without notice.
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APEX™ PV Module

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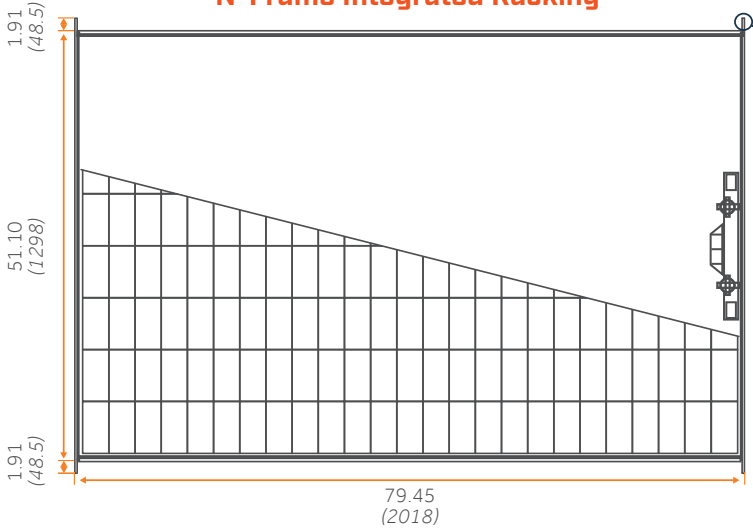
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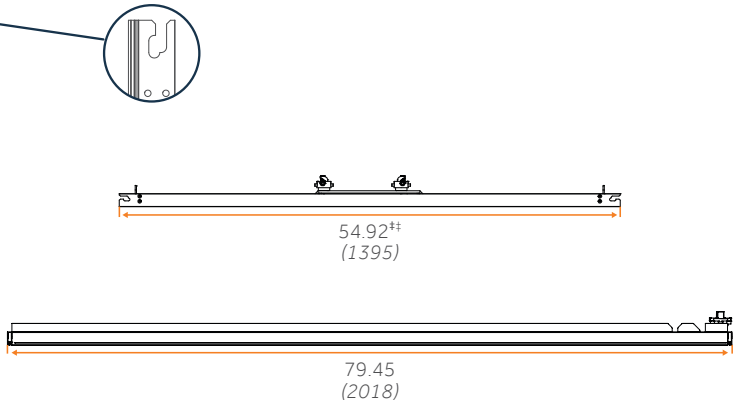
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N-Frame Integrated Racking‡



Module Extension



Partner Information

Measurements in inches *(mm)*
‡ Integrated N-Frame optimized for Global RAIS racking solutions
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