

SALVEX SOLAR

6" Monocrystalline Half-cut 144 cells

Power Output: **400 - 420 Watt**
 Max. Efficiency: **20.8 %**



High Mechanical Load
 Certified to withstand high wind and snow loads up to 5400Pa



Enhanced Performance
 Half cut cell feature allows a power increase of at least 5Wp vs. standard modules



Anti-reflective Surface
 Increases the panel's exposure and efficiency of converting sunlight into energy



Lower Hot Spots
 Half cut design reduces energy loss caused by shading between modules



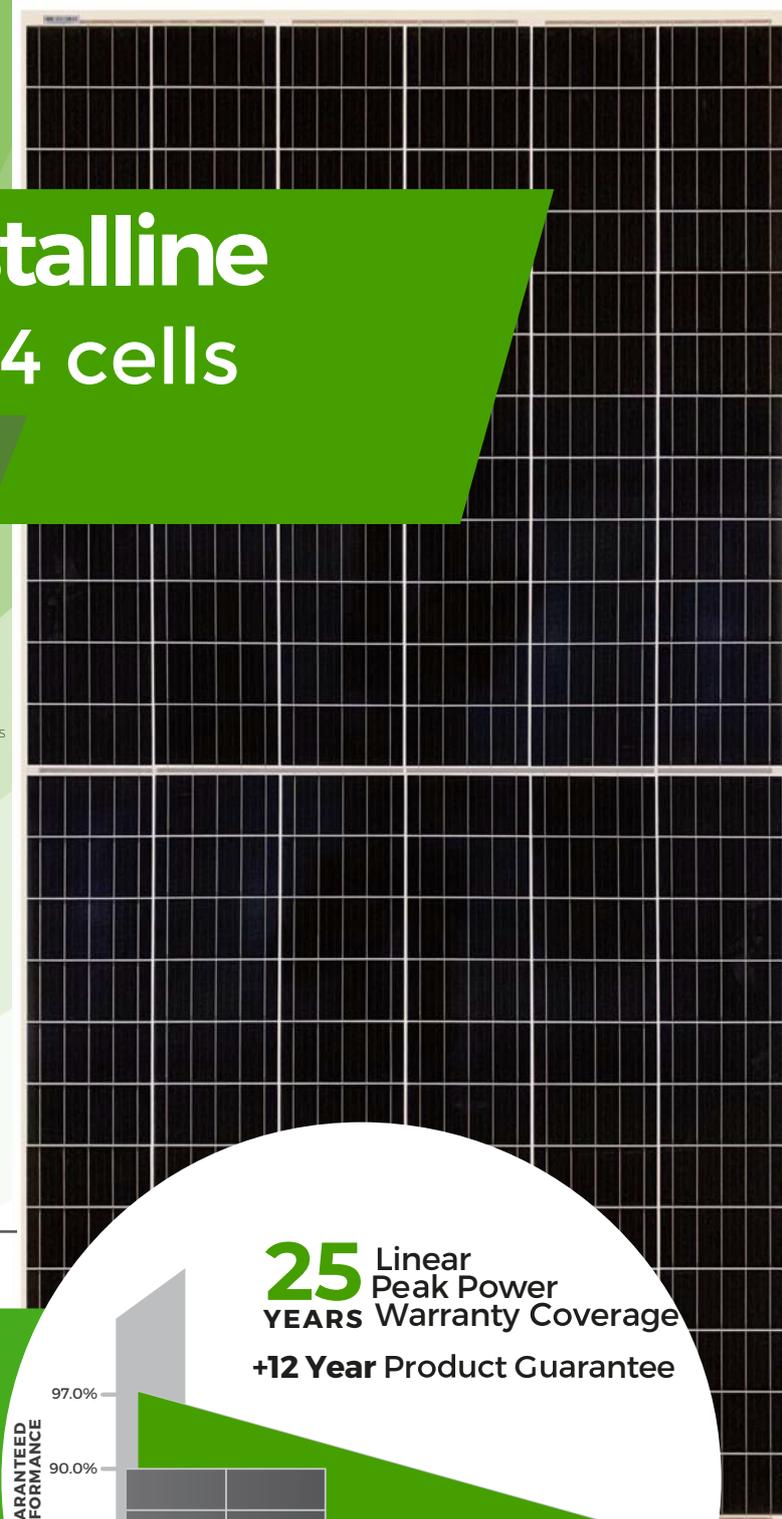
Ideal for Large Scale Installations
 Lower installations time and BOS (Balance of Systems) costs



Salt Mist and Ammonia Resistant
 Certified by Bureau Veritas to withstand usage near coastal environments



PID free
 Designed to minimise cell degradation in extreme environments

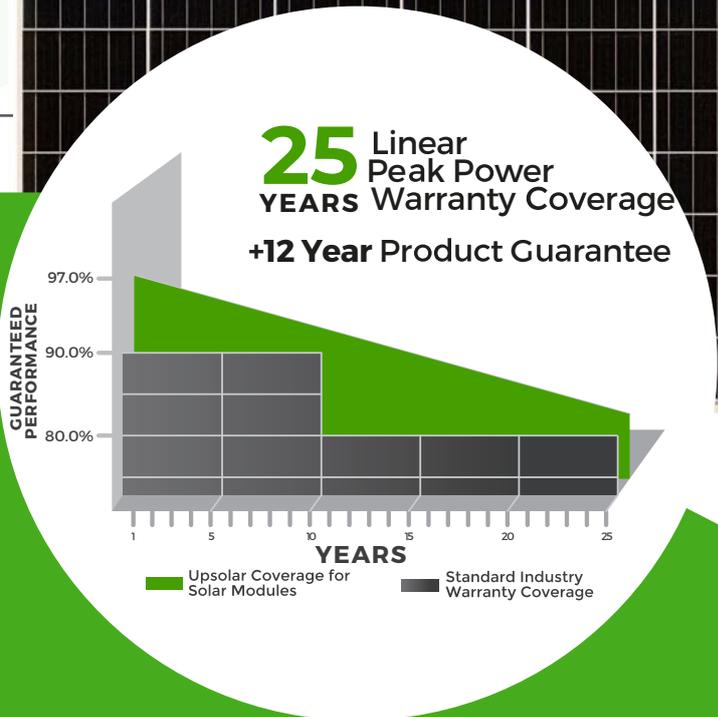


Secure Investment

Upsolar provides exceptional product coverage for all modules to ensure our customers achieve superior long-term value from their solar installations. To further improve our product warranty, which covers unanticipated module damage, we've recently expanded our terms from a 10-year period to a 12-year period.

In addition, Upsolar offers a 25-year performance guarantee known as the Linear Module Warranty. Whereas traditional policies feature a single trigger point leading to drastic coverage reductions after just 10 years, Upsolar's coverage more accurately corresponds to system performance, providing coverage for over 25 years.

Overall, our goal is to deliver not only top-notch modules, but also peace of mind, for decades to come.



*Manufacturer has expanded its manufacturing operations in Asia, Europe and North America, keeping its modules duty-free in the event of new CVD or AD policies. Please ask about pricing, payment terms and conditions to meet your needs.

Mono Series | 6" Half-cut 144 cells

Electrical Characteristics

MODEL	UP-M400MH	UP-M405MH	UP-M410MH	UP-M415MH	UP-M420MH
Max Power Pm (Wp)	400	405	410	415	420
Max Power Voltage Vm (V)	40.7	41.0	41.3	41.6	41.9
Max Power Current Im (A)	9.83	9.88	9.93	9.98	10.02
Open-Circuit Voltage Voc (V)	49.7	50.0	50.3	50.6	50.9
Short-Circuit Current Isc (A)	10.36	10.44	10.52	10.60	10.68
Module Efficiency	19.8%	20.1%	20.3%	20.6%	20.8%
Maximum System Voltage (V)	1000(IEC)/1000(UL) or 1500(IEC)/1500(UL)				
Power Tolerance	0/+3%				
Series Fuse Rating (A)	20A				

STC: Irradiance 1000 W/m²; Module temperature 25°C; AM=1.5

Components & Mechanical Data

Front Glass	High Transparency Tempered Glass 0.125" // 3.2 mm
Junction Box	IP 67 or above
Bypass Diode	3 diodes
Output Cables	IEC, UL approved (4 mm ² , 12AWG) (PV Wire Type)
Connectors	MC4 compatible (IP67, IEC and UL approved)
Frame	Anodized aluminium alloy type 6063-T5
Encapsulation Material	EVA
Back Sheet	White multilayer polymer film
Temperature Range	-40°F to +194°F // -40°C to +90°C
Max Load	75 lbs / ft ² (UL Standard) // 5400 Pa (IEC Standards)
Impact Resistance	Steel ball - 1.18 lbs // 535 g dropped from 51" // 1.3 m high

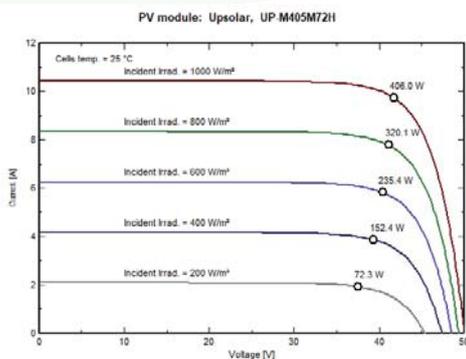
Specifications

Cells	Mono PERC 158.75x 79.375
Number of Cells	144 (6 x 24)
Dimensions (in // mm)	78.81 x 39.32 x 1.38 // 2008 x 1002 x 35
Weight (lb // kg)	48.5 // 22.0

Temperature Coefficients

NOCT (°C)	43 ± 2
Temperature Coefficients of Isc (% / °C)	0.048 ± 0.01
Temperature Coefficients of Voc (% / °C)	-0.30 ± 0.02
Temperature Coefficients of Im (% / °C)	-0.02 ± 0.02
Temperature Coefficients of Vm (% / °C)	-0.40 ± 0.03
Temperature Coefficients of Pm (% / °C)	-0.38 ± 0.05

IV Curves



Options Available

Black or transparent backsheet
Customized cable length

