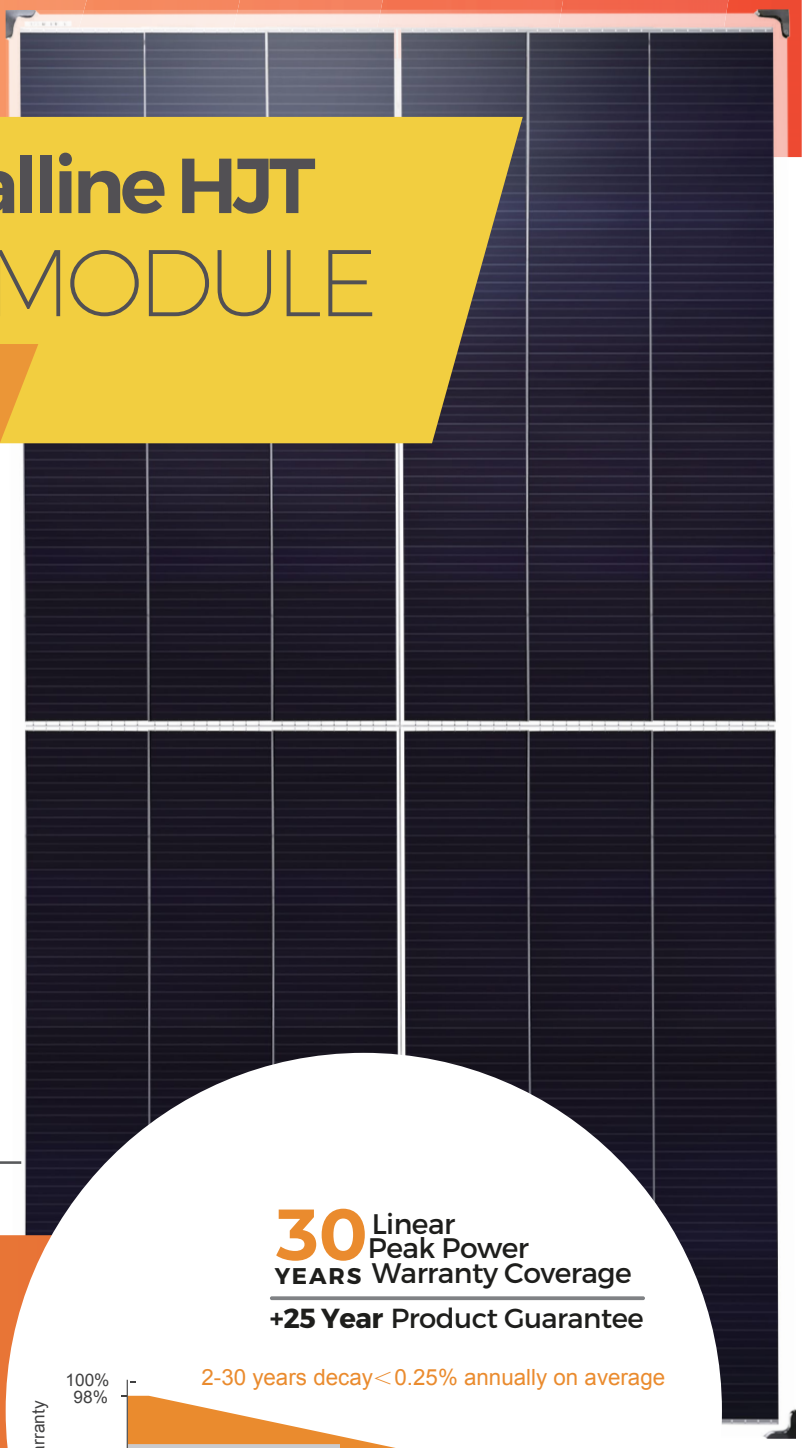
Upsolar

6” | Monocrystalline HJT Shingled MODULE

Power Output: **395-415 Watt**
Max. Efficiency: **21.2%**



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

Outstanding Temperature Coefficients
Reduces power loss for solar modules operating in high temperature climates

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

High Efficiency & PERC
Monocrystalline cells (with the option of PERC) allows a higher yield

Excellent Low-Light Performance
Tier 1 certified solar cells allows better performance in low-light environments

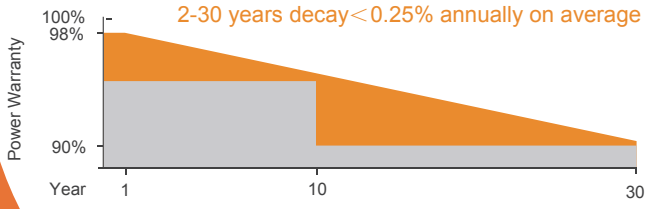
Salt Mist and Ammonia Resistant
Certified by Bureau Veritas to withstand usage near coastal environments

PID resistant
Designed to minimise cell degradation in extreme environments

IEC 61215 61730 | CE

30 YEARS Linear Peak Power Warranty Coverage

+25 Year Product Guarantee



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.

*Upsolar 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.

Shingled Series | 6” PV Module

Electrical Characteristics @ STC*

MODEL	UP-S395HH-G	UP-S400HH-G	UP-S405HH-G	UP-S410HH-G	UP-S415HH-G
Max Power Pm (Wp)	395	400	405	410	415
Max Power Voltage Vm (V)	38.21	38.41	38.61	38.81	39.01
Max Power Current Im (A)	10.34	10.41	10.49	10.56	10.64
Open-Circuit Voltage Voc (V)	46.67	46.87	47.07	47.27	47.47
Short-Circuit Current Isc (A)	11.01	11.06	11.11	11.16	11.21
Module Efficiency	20.10%	20.40%	20.70%	20.90%	21.20%
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 0.157” // 3.2 mm
Junction Box	IP 67 or above
Bypass Diode	2 diodes
Output Cables	0.3 m // IEC, UL approved (4 mm² , 12AWG) (PV Wire Type)
Connectors	MC4 compatible (IP67, IEC and UL approved)
Frame	Anodized aluminium alloy type 6063-T5, silver or black
Encapsulation Material	EVA
Back Sheet	White multilayer polymer film
Temperature Range	-40˚F to +185˚F // -40˚C to +85˚C
Max Load	75 lbs / ft² (UL Standard) // 5400 Pa (IEC Standards)
Impact Resistance	Steel ball - 1.18 lbs // 535 g dropped from 51” // 1.3 m high

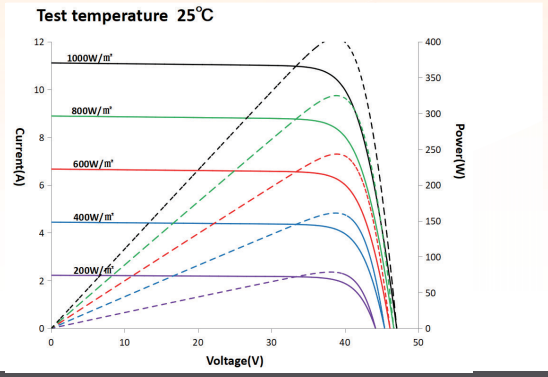
Specifications

Cells	Monocrystalline silicon solar cells 158.75 x 158.75 mm
Number of Cells	74.66
Dimensions (in // mm)	66.54 x 45.67 x 1.18 // 1690 x 1160 x 30
Weight (lb // kg)	52.9 // 24

Temperature Coefficients

NOCT (°C)	45 ± 2
Temperature Coefficients of Isc (% / °C)	0.05 ± 0.01
Temperature Coefficients of Voc (% / °C)	-0.22 ± 0.02
Temperature Coefficients of Im (% / °C)	-0.02 ± 0.02
Temperature Coefficients of Vm (% / °C)	-0.25 ± 0.03
Temperature Coefficients of Pm (% / °C)	-0.24 ± 0.05

IV Curves



Options Available

Black frame