



Limited Power	90% at 10 years, 80% at 25 years
Workmanship	7 years
Standards Certification	IEC 61646, IEC 61703-1&2, ANSI/UL 1703, IEC 61701 Severity 6
Fire Resistance	Class C (Class A Flame Spread)
Safety	Class II (IEC 61140)
Mechanical, Wind Load	2400 Pa (50 psf)



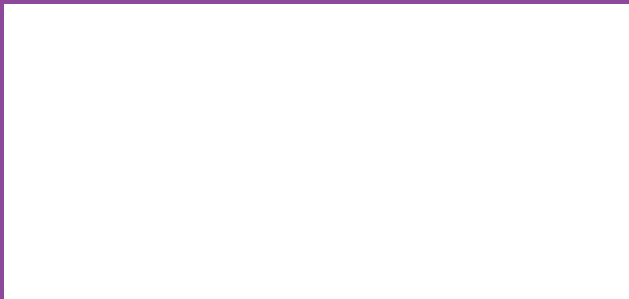
Solar Energy Panels

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SolarPanels
 “Solar PV Modules”
GENERATIONAL ENERGY



High Performance CIS
solar power energy

Intelli-Grid

Overview



“INTELLIGRID” Solar Panel modules represent the convergence of high performance materials and processing with scalable manufacturing. Features all-weather module construction, unique cell architecture, and semiconductor uniformity enabled by proven processes and equipment. Recognized for its best in class aesthetics and provides up to 50% better power performance in shaded conditions compared to typical crystalline silicon modules. Our IntelliGrid Solar Kits take the guess work out of the myriad of components needed for installation. Kits are available in 3kw, 6kw and 11kw which include all the Solar Panels, SMA Sunny BoyPower Inverter, Electrical wire, AC and DC Disconnects, Combiner Box, Roof Mounting Hardware and everything needed to power your home!

STC* Characteristics

		SF150-S	SF155-S	SF160-S
Maximum power	Pmax	150 W	155 W	160 W
Module efficiency		12.2%	12.6%	13.0%
Factory binning				0/+5W
Open circuit voltage	Voc	108.0 V	109.0 V	110.0 V
Short circuit current	Isc	2.20 A	2.20 A	2.20 A
Voltage at maximum power	Vmpp	81.5 V	82.5 V	84.0 V
Current at maximum power	Imp	1.85 A	1.88 A	1.91 A

Mechanical

Dimensions (L x W x H)	1,257 x 977 x 35 mm (49.5 x 38.5 x 1.4 in.)
Weight	20 kg (44.1 lbs)
Application class (IEC 61730)	A
Fire rating (IEC 61730)	Class C
Safety class (IEC 61140)	II
Snow/wind load*	2,400 Pa (IEC 61646) / 1,600 Pa design load (UL 1703)
Cell type	CIS glass substrate (cadmium free)
Front cover	Clear tempered glass, 3.2 mm
Encapsulant	EVA
Back sheet	Weatherproof plastic film (color: black & silver)
Frame	Anodized aluminum alloy (color: black)
Edge sealant	Butyl rubber
Junction box	Protection rating: IP 67 (with bypass diode)
Adhesive	Silicone
Output cables (conductor)	2.5 mm ² /14 AWG (halogen free)
Cable lengths (symmetrical)	1,200 mm (47.2 in.)
Packing information	25 panels/pallet • 36 pallets/40' container (900 panels)



Superior Energy Density

- Excellent warm temperature performance
- More kWh/m² than poly or mono crystalline silicon in most climates
- CEC listed, PTC/STC ratio of 92.9% UL and RoHS compliant

Durable

- IntelliGrid-160 modules have passed the most severe salt spray test per IEC 61701 (severity 6)
- Dual rated 1000 volt UL and IEC
- Anodized aluminium alloy frame
- 3.2mm Clear tempered glass

Limited Lifetime Warranty

- All Solar Frontier PV solar modules are designed and manufactured under the highest quality standards.
- Power output guarantee is 90% after 10 Years and 80% after 25 Years