



Sunnytek thin film solar panels is the most efficient and modern solutions for realistic costs to generate electrical power by sun. After many years experience with solar energy we feel very happy to offer this solution and system around panels to our clients.

Features of Sunnytek thin film panels Supreme series

- * Thin film panels with good electrical efficiency and very attractive cost.
- * Full glass design for best reliability and life cycle cost. Glass survive sun UV light and ageing better than mosts materials and in particular plastics.
- * Thin film makes more electrical output that silicon cells in not perfect sunshine in weather typical to Europe and mountain areas and rain season times
- * Thin film handle high temperatures far better than silicone so in hot areas with intense sunshine the temperature coefficient is much better and panels gives more output than silicon systems
- * Output designed to match MPPS changers and inverters as it is high. Here we can use many panels and still have small diameter cables and smaller losses than battery optimised panels
- * Smart accessories and hardware for installation to make panels as a water proof sealed roof with all cable behind and a nice look. (Not on photo)
- * Very nice and elegant design that is modern. Power 77W per panel so they can be carried by one man only.
- * Different transparency models on demand so we can offer then as solar protection film look. Dark mirror style. Perfect for office walls and balcony shields

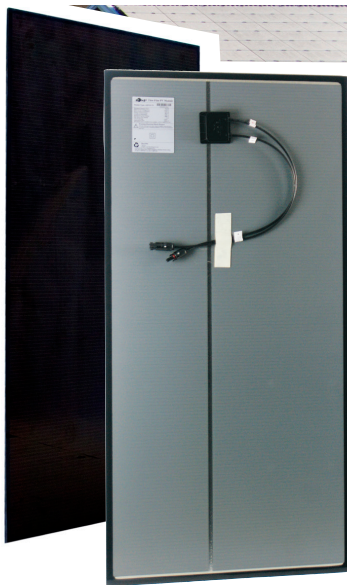
Supreme series is the best choice in most cases and the thin film design warrants highest output per year over most other models. Tests in Sweden shows a typical 7-10 % advantage over silicon wafer designs per year and costs are not higher so this is the given choice. In warmer areas dark solar panels come up to almost 100C in temperature combined with intense UV radiation. Here we have pure glass surfaces as they did in Mesopotamia 3500 BC.

The non aluminium frame design is easy to install as glass windows. We have mounting hard ware for all types of installations.



Technical specifications Supreme solar panels

Model nr SU77-117 for inverter and high power systems



Nominal output	77 W as standard measurement
Output	117 Volt DC
Short circuit current	0.96A
Volt at max power	91.6 Volt
Current at max output	0.85A
Length	1200 mm
Width	600 mm standard module size for buildings
Thickness	6.8 mm
Weight	11.8 Kg ex packing
Temperature coefficient	PM -0.214 % per degree C
Temperature coefficient	VOC -0.321 % per degree C
Temperature coefficient	Isc 0-060 % per degree C
Efficiency	12 %

Model nr SU80-80 for lower voltage output

Same as SU77 model but following differences

Nominal output	80W
Output	80 volt DC
Volt at max power	47.5 volt
Current at max power	1,69A
Short circuit current	1.92 A



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