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# **EnergyPal**

## **Solar Panel Guide Specification Data Sheet**

**Sunerg Solar S.r.l.  
X-SMART XM460I+35 (TS4) 290-295Wp  
XM460-295 I+35 TS4-\*\***

Also available on the web at  
[EnergyPal.com/sunerg-solar-s-r-l-solar-panels/xm460-295-i-35-ts4](http://EnergyPal.com/sunerg-solar-s-r-l-solar-panels/xm460-295-i-35-ts4)

# X-SMART Monocrystalline

290 - 295 Wp



4 Busbar cells



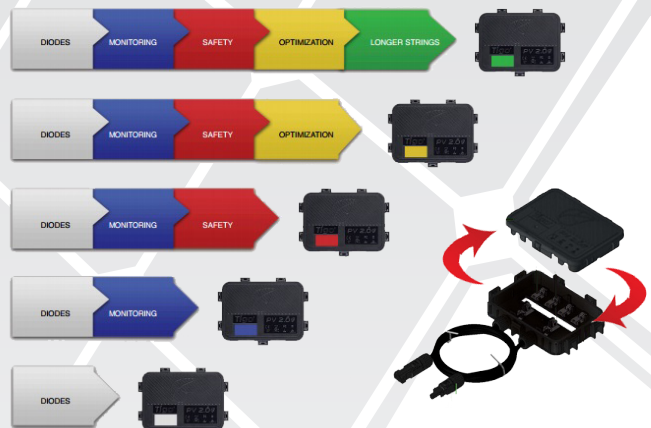
Plus only Tolerance -0/+5 Wp



Designed and engineered in Italy

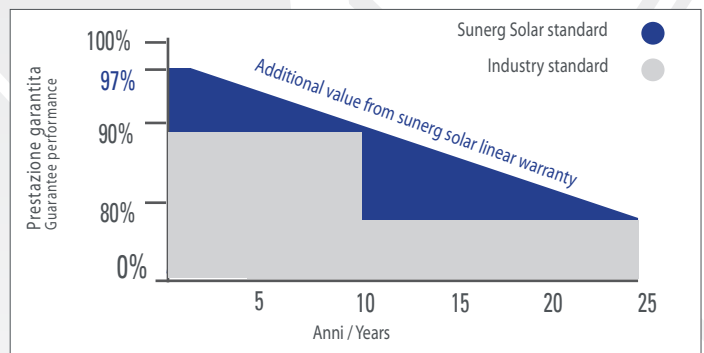


Product warranty



The new X-SMART combines the quality of our photovoltaic modules of Sunerg solar with the versatility Interchangeable system of Tigo. The TS4 universal platform enables plug-and-play functionality for any solar module. The base provides a single interface that can be matched with one of several electronic covers to address a range of functions and budgets. Tigo has expanded its smart module platform to provide five levels of customization with an universal base and a range of covers.

### LINEAR WARRANTY



\*Vedi termini di garanzia - look warranty terms - voir les conditions de garantie

### CORRESPOND TO

IEC 61215-ed2 | EN 61730-1 | EN 61730-2 | UNI 9177 Reaction to Fire: Class 1 PV CYCLE | CE |

UNI EN ISO 9001:2008  
UNI EN ISO 14001:2004  
UNI EN BS OHSAS 18001:2007

| Quality management system  
| Standards for environmental management system  
| International standards for occupational health and safety

ELECTRICAL DATA (STC)		XM460290I+35 TS4-**	XM460295I+35 TS4-**
Open circuit voltage	(Voc)	37.86 V	38.94V
Voltage at Pmax	(Vmp)	33.18 V	33.40 V
Short-circuit current	(Isc)	9.34 A	9.40 A
Current at Pmax.	(Imp)	8.75 A	8.85 A
Peak Power (Pmax) Tolerance -0/+5 Wp*		290 Wp	295 Wp
Module Efficiency		17.80%	18.11%
Maximum voltage		1000 V DC	1000 V DC
Maximum series fuse rating		16A	16A
Operating Temperature		-40°C - +85°C	-40°C - +85°C

\*\*D / M / S / O / L

Tolerans elektrisk mätning 3%

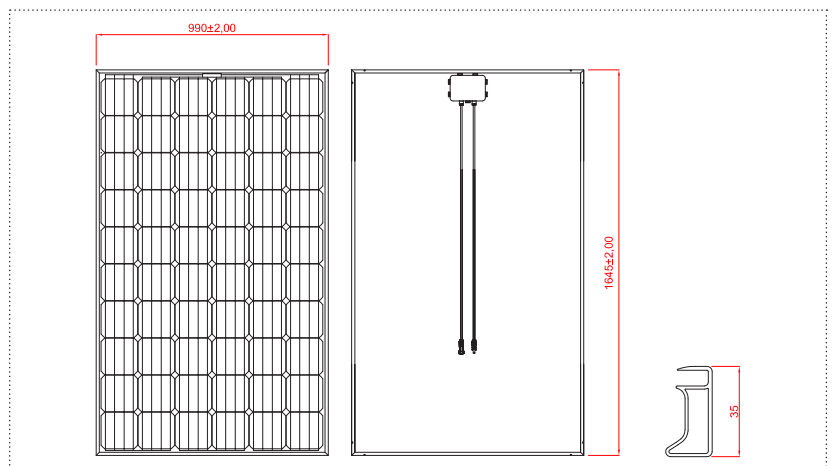
**\* STC** (Standard test conditions)

Irradiance 1000 w/m<sup>2</sup>, module temperature 25°C, AM= 1.5

**TEMPERATURE COEFFICIENT**

NOCT	46±2 °C
Pmax Temperature coefficient	-0.38% / °C
Voc Temperature coefficient	-0.36% / °C
Isc Temperature coefficient	0.07% / °C

**PRODUCT**



**MECHANICAL CHARACTERISTIC**

Hail test	25 mm - 23 m/s
Max load long side	5920 Pa
Number of cells	60 (156.75 mm x 156.75 mm) Type: Mono
Weight	18.4 Kg

**GENERAL INFORMATION**

Front glass	Tempered AR Coated glass, 3.2 mm
Frame	Anodized aluminum alloy (Ral 9005 black coating for IB+35 series)
Junction Box	Mod. Tigo TS4   IP65/IP67   NEMA 3R
Output cables	Solar cable PV1-F; 4mm <sup>2</sup> ; MC4 connectors



Sunerg srl We reserve the right to make changes to product specifications without notice  
The technical data of the module, even though they are entered with extreme care, may contain errors or inaccuracies not attributable to Sunerg Solar S.r.l.