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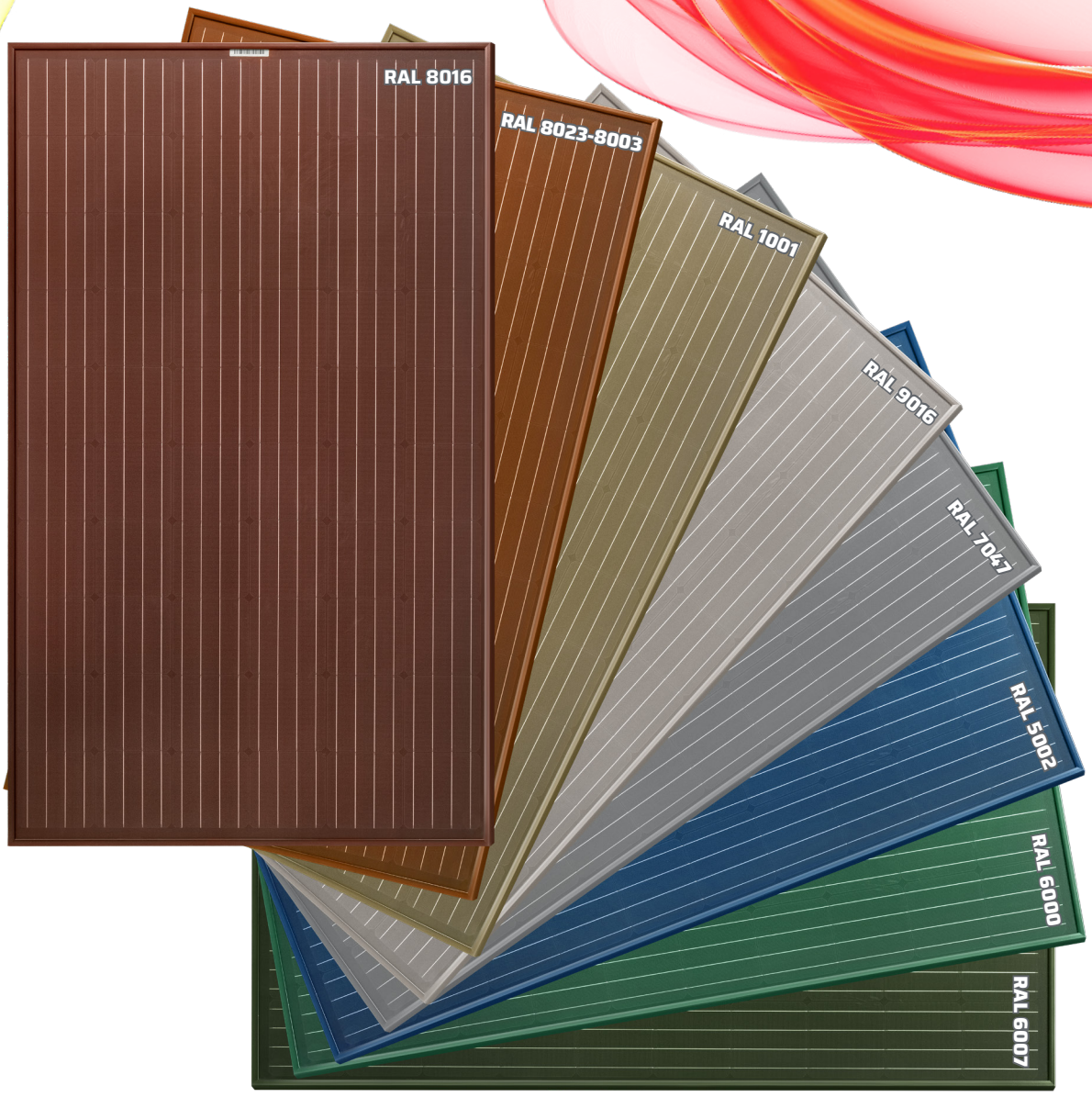
Sunerg® SOLAR ENERGY

MADE IN ITALY PRODUCTION SINCE 1978

Color Your Energy



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Quality has always been the backbone of Sunerg's work. Sunerg is committed to reaching perfection and improving itself every day; only in this way it does guarantee quality at every level of the production process and at all stages of manufacturing, by scrupulously quality testing so that we can give you the excellence encapsulated in a product.

With respect to the environment, Sunerg has specially designed colorful solar panels that integrates into the building. In addition to energy consumption efficiency, colored solar modules can also create exceptional designs and innovative compositions.

Coloured photovoltaic panels can be applied on both historic buildings or subject to landscape constraints, and on new buildings or on high aesthetic value architectures.

MADE IN ITALY

25years
Product warranty

30years
Linear warranty

Colored Glass

High resistance
to snow / Wind loads

CERTIFICATION:
UNI EN ISO 9001:2008
UNI EN ISO 14001:2004
UNI EN ISO 45001:2018
| PV CYCLE | CE

CONFORM TO :
IEC 61215 | IEC 61730

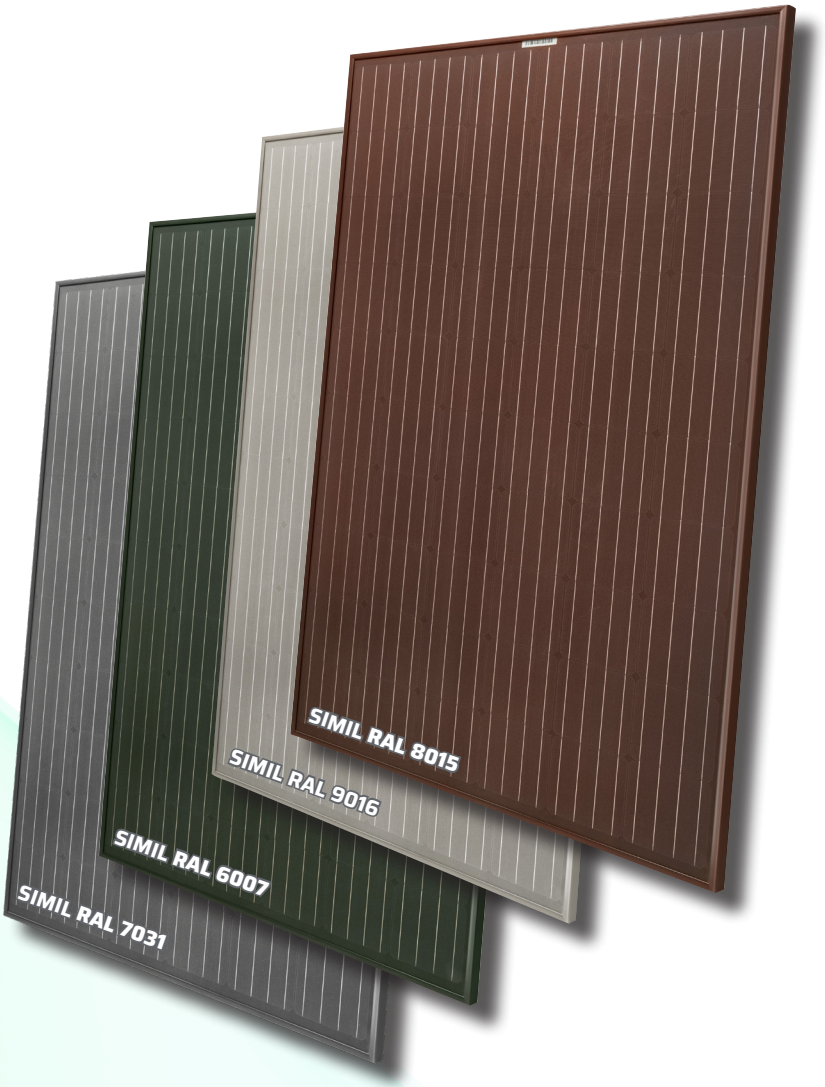
| QUALITY MANAGEMENT SYSTEM
| STANDARDS FOR ENVIRONMENTAL MANAGEMENT SYSTEM
| INTERNATIONAL STANDARDS FOR OCCUPATIONAL HEALTH AND SAFETY

X-COLOR XL

Monocrystalline

290 - 300 Wp

Sunerg has designed colored modules respecting the environment in the pursuit of a more complete protection of the architectural asset in relation to the environmental framework in which it is inserted.



GLASS COLOR (SIMIL RAL)		9016	6007 - 8015 - 7031	6007 - 8015 - 7031
ELECTRICAL DATA (STC)		**XM460250I+35**	**XM460290I+35**	**XM460300I+35**
Open circuit Voltage	(Voc)	37.98 V	38.76 V	38.92 V
Voltage a Pmax.	(Vmp)	31.00 V	33.18 V	33.30 V
Short-circuit current	(Isc)	8.41 A	9.34 A	9.36 A
Current at Pmax.	(Imp)	8.09 A	8.75 A	9.01 A
Peak Power Tollerance 0/+5%	(Pmax)	250 Wp	290 Wp	300 Wp
Module Efficiency		15.35%	17.38%	17.98%
Maximum voltage			1000 V DC	
Maximum series fuse rating			16A	
Operating Temperature			-40°C - +85°C	

Tolerance electric measurement and Power output ±3%

MECHANICAL CHARACTERISTIC		GENERAL INFORMATION		TEMPERATURE COEFFICIENT	
Hail test	25 mm - 23 m/s	Front glass	Colored glass, 4 mm	NOCT	46±2 °C
Max load long side	5920 Pa	Frame	Anodized aluminum alloy (coating by glass color)	Pmax Temperature coefficient	-0.38%/ °C
Number of cells	60 (158.75 mm x 158.75 mm) Tipo: Mono PERC	Junction box	IP67 rating, 3 bypass diodes	Voc Temperature coefficient	-0.36%/ °C
Dimension	1665x1002x35 mm	Output cables-connectors	Cable E317230-C PV, connectors PV4	Isc Temperature coefficient	0.07% / °C
Weight	18.6 Kg	*** STC (STANDARD TEST CONDITIONS):** Irradiance 1000 W/m^2, Temperature 25°C, AM = 1.5			

X-COLOR HJT

Heterojunction High Efficiency Solar Cells

Monocrystalline

320 - 360 Wp

The innovative technology microwire solar cells consists of copper wires supported by a polymer foil. The wires are coated with a thin low melting point alloy layer, which melts during the module lamination process and builds up a solder contact to the cell metallization.

GLASS COLOR (SIMIL RAL)		8003-8023	8003 - 7047 - 1001	7047 - 1001	6000 - 8016	6000 - 8016
ELECTRICAL DATA (STC)		**XMXLJ60320I+H**	**XMXLJ60330I+H**	**XMXLJ60340I+H**	**XMXLJ60350I+H**	**XMXLJ60360I+H**
Open circuit Voltage	(Voc)	42.25 V	43.12 V	43.95 V	44.36 V	44.46 V
Voltage a Pmax.	(Vmp)	35.40 V	36.10 V	36.90 V	37.29 V	37.80 V
Short-circuit current	(Isc)	10.17 A	10.38 A	10.45 A	10.71 A	10.73 A
Current at Pmax.	(Imp)	9.10 A	9.20 A	9.30 A	9.46 A	9.70 A
Peak Power Tollerance 0/+5%	(Pmax)	320 Wp	330 Wp	340 Wp	350 Wp	360 Wp
Module Efficiency		17.87%	18.43%	18.99%	19.55%	20.11%
Maximum voltage				1000 V DC		
Maximum series fuse rating				20A		
Operating Temperature				-40°C - +85°C		

Tolerance electric measurement and Power output ±3%

MECHANICAL CHARACTERISTIC		GENERAL INFORMATION		TEMPERATURE COEFFICIENT	
Dimensions (mm)	1730 x 1038 x 35	Glass	3,2 mm, high transmission, tempered glass	Pmax Temperature Coefficient	-0.260%/ °C
Weight (Kg)	20	Frame	Anodized aluminum alloy	Voc Temperature Coefficient	-0.270%/ °C
Solar cells type	HJT Mono 166 mm	Juntion Box	IP67	Isc Temperature Coefficient	0.055% / °C
No. solar cells	60	Output Cable - Connectors	4.0mm², 1000 mm MC4 compatible	*** STC (STANDARD TEST CONDITIONS)**	
				Irradiance 1000 W/m², Temperature 25°C, AM = 1.5	