

MICROSOLAR™ Series

MICROSOLAR™ series - MICRO SOLAR PANELS

Photovoltaic High Efficiency Micro Solar Panels

Product Overview

MICROSOLAR™ Solar Panels are made with high efficiency solar cells in a surface mount package. Robust and ready to be used in all kind of applications, for battery charging and power all kind of electronics. **MICROSOLAR™ Solar Panels** are ideal for prototyping, experiments and learning.

Put the power of photovoltaic solar energy in your creations and generate green electricity. Make your own solar creations. Great for educational, scientific, research, design, DIY, robotics, toys and much more.

Power Electronics, LEDs, Solar Micro DC Motors and Pumps; charge and maintain batteries, capacitors and emergency backup batteries in such a way that battery life is extended. They are also suitable industrial applications such as wireless electronics, sensors and instruments.

The smart design allows connecting **MICROSOLAR™ Solar Panels** flexibly in series and/or parallel to perfectly meet the application's voltage and power requirements.

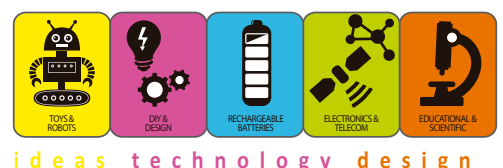
MICROSOLAR™ Solar Panels have a very good response over a wide wavelength range and stability.

Features and Benefits

- High efficiency solar cells
- Built-in diode reverse current protection (included in certain models)
- Long life and stable output
- High mechanical robustness package
- Film PET laminated encapsulation
- Easy to connect with screw terminals (4mm²)
- One product for multiple applications
- Flexible integration into the applications
- Suitable for rechargeable NiCd, NiMH and Lithium batteries and capacitors
- Ideal for battery powered electronic devices, GPS, lights, sensors, microprocessors like ARDUINO™, RASPBERRY™, tec.

Note: ARDUINO™ and RASPBERRY™ are registered branches.

microsolar
CREATOR SERIES



Industry Leading Technology for Off-Grid, Off-Shore and Backup Power Applications

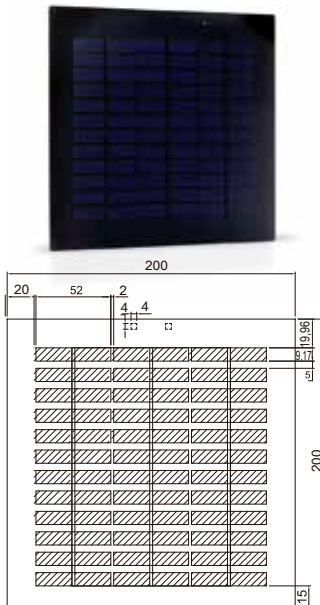


MICROSOLAR™ Series

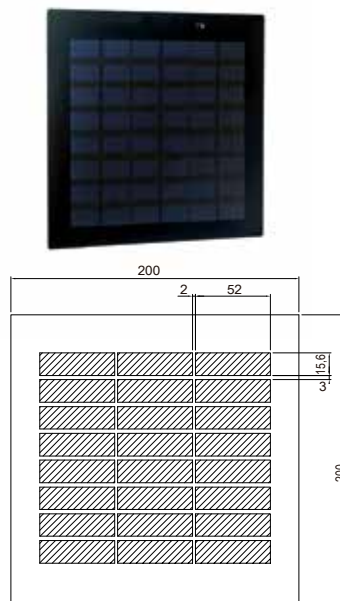
Available Models

PCB-PET Series

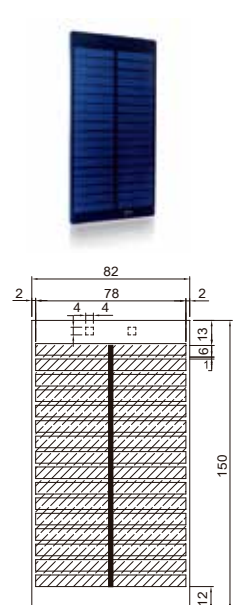
MS18V150*



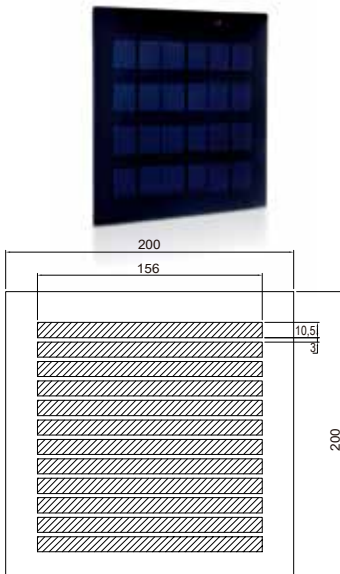
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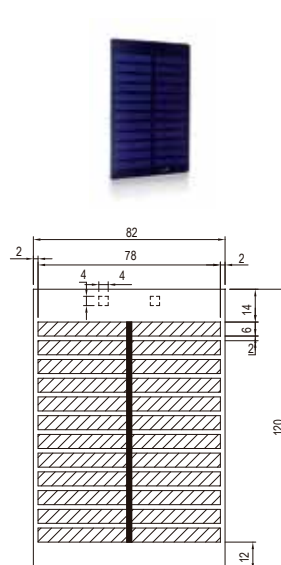
MS9V150*



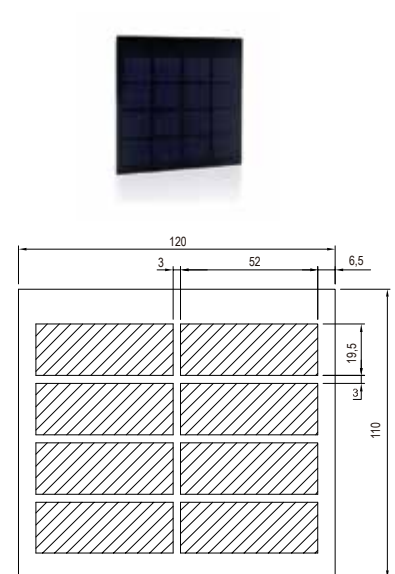
MS6V450*



MS6V150*



MS4V350



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SOLAR



WIND



MARINE
BOAT



CARAVAN
CAMPING



UPS-BACKUP
ENERGY



PROFESSIONAL



TELECOM
CATV



AGRICULTURAL



WORKS



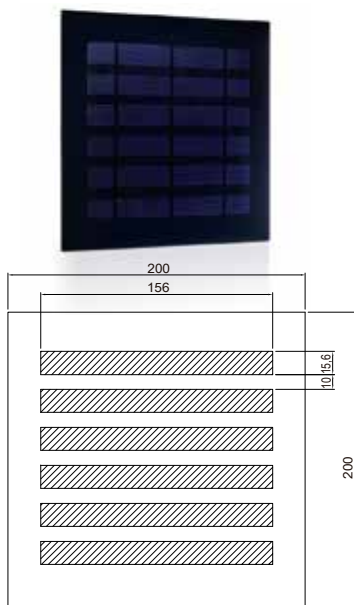
TRAFFIC

MICROSOLAR™ Series

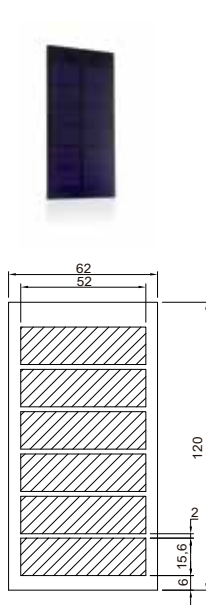
Available Models

PCB-PET Series

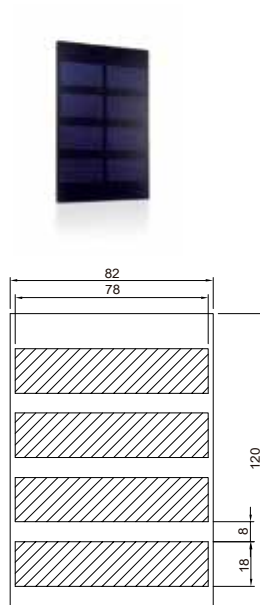
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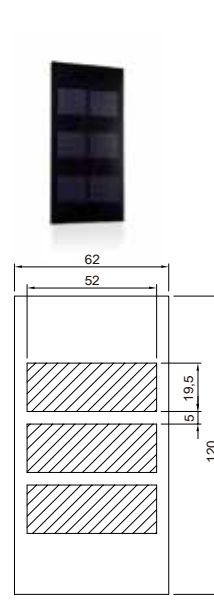
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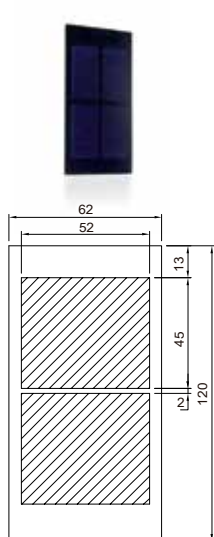
MS2V450



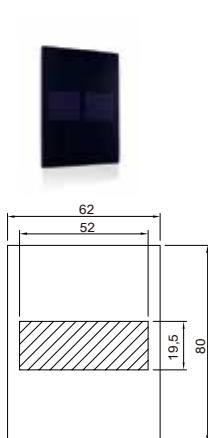
MS1P5V350



MS1V750

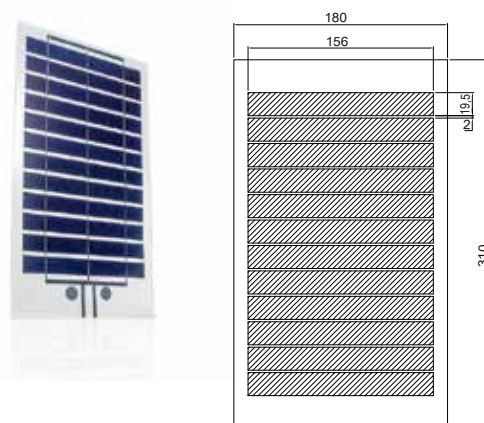


MS05V350



Transparent Flexible PET Series

MS6V900



Note: These pictures are not to scale
*Built-in diode reverse current protection

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MICROSOLAR™ Series

Specifications

PCB-PET Series

Model	Part Number	Pmax [W]	Voc [V]	Isc [A]	Vmpp [V]	Impp [A]	Number of Cells	Dimensions (L x H x W) [mm]	Weight [kg]	Screw Connectors (4mm ²)	Ideal for DC Motors & Fans, Rechargeable Batteries (NiCd, NiMH, Lithium-Ion, Lead-Acid) and Capacitors
Micro Solar Panel 18V / 150mA	MS18V150	2.70	18.8	0.165	18	0.150	72	200 x 200 x 3	0.195	Yes	11.1V, 12V and 14.4V
Micro Solar Panel 12V / 250mA	MS12V250	3.00	13.2	0.275	12	0.250	48	200 x 200 x 3	0.195	Yes	6V, 6.5V, 7V and 9V
Micro Solar Panel 9V / 150mA	MS9V150	1.35	9.90	0.165	9	0.150	36	150 x 82 x 3	0.062	Yes	6V, 6.5V, 7V and 7.5V; 4 x AA and 4 x AAA;
Micro Solar Panel 6V / 450mA	MS6V450	2.70	6.60	0.495	6	0.450	24	200 x 200 x 3	0.195	Yes	3V, 3.7V and 4V; 2 x AA and 2 x AAA
Micro Solar Panel 6V / 150mA	MS6V150	0.90	6.60	0.165	6	0.150	24	120 x 82 x 3	0.050	Yes	3V and 4V; 2 x AA and 2 x AAA
Micro Solar Panel 4V / 350mA	MS4V350	1.40	4.40	0.365	4	0.350	16	110 x 120 x 3	0.065	Yes	1 x AA and 1 x AAA
Micro Solar Panel 3V / 850mA	MS3V850	2.55	3.30	0.865	3	0.850	24	200 x 200 x 3	0.226	Yes	1 x AA and 1 x AAA
Micro Solar Panel 3V / 250mA	MS3V250	0.75	3.30	0.275	3	0.250	12	120 x 62 x 3	0.035	Yes	1 x AA and 1 x AAA
Micro Solar Panel 2V / 450mA	MS2V450	0.90	2.20	0.495	2	0.450	8	82 x 120 x 3	0.045	Yes	1 x AA and 1 x AAA
Micro Solar Panel 1.5V / 350mA	MS1P5V350	0.525	1.6	0.385	1.5	0.350	6	62 x 120 x 3	0.035	Yes	
Micro Solar Panel 1V / 750mA	MS1V750	0.750	1.1	0.880	1	0.750	4	62 x 120 x 3	0.035	Yes	
Micro Solar Panel 0.5V / 350mA	MS05V350	0.175	0.55	0.385	0.5	0.350	2	62 x 80 x 3	0.026	Yes	

Transparent Flexible PET Series

Model	Part Number	Pmax [W]	Voc [V]	Isc [A]	Vmpp [V]	Impp [A]	Number of Cells	Dimensions (L x H x W) [mm]	Weight [kg]	Screw Connectors (4mm ²)	Ideal for DC Motors & Fans, Rechargeable Batteries (NiCd, NiMH, Lithium-Ion, Lead-Acid) and Capacitors
Micro Solar Panel 6V / 900mA	MS6V900	5.40	6.60	0.980	6	0.900	12	180 x 310 x 2	0.125	No	3V, 3.7V and 4V; 2 x AA and 2 x AAA

Pmax: Maximum Power; Voc: Open Circuit Voltage; Isc: Short Circuit Current; Vmpp: Voltage at max. power point; Impp: Current at max. power point

IS-2006216-GAH



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