



SunMizer™

Optimum I-V for PV

Improves Power Harvest

SunMizer™ is a new per-panel DC-to-DC power optimizer that performs MPP tracking at the panel substring level to increase power harvest. SunMizer achieves maximum power flow from the panel during sub-optimal operating conditions caused by shade and soiling, to recover over 50% of system level power loss.

SunMizer's patent pending Optimum I-V for PV™ technology combines simple design with the fewest, most robust power components available. The result is best in class reliability and performance in the most effective efficiency improvement solution available for PV.



Selective Installation

"Selective installation" gives SunMizer a unique advantage over competing DC/DC power optimizers that require a unit on each panel in a string. SunMizer can be installed selectively, only on the solar panels that experience regular shade or soiling. Selective installation provides optimized power output at a lower initial cost and that means faster return on investment for the system owner.

Compatibility and Installation

SunMizer is lightweight (< 2 kg) and its compact dimensions of 6" x 4" x 1.6" (15 x 10 x 4 cm) make it easy to install directly to panel racking with standard rack system fasteners and nuts. Each unit has an integral ground lug that also accepts a ring terminal connection. SunMizer is currently compatible with a wide variety of popular rack mounting systems. SunMizer is connected in-line with PV panels using standard series wiring schemes and does not require specialized wiring or "add-on" equipment.

SunMizer is compatible with a large list of 156mm cell architecture models from most major panel manufacturers worldwide. Panels with a maximum power rating of 250W (Pmax), 48V (VOC), and 9A (ISC) or 350W (Pmax), 80V (VOC), and 7A (ISC) can be used with SunMizer (see product specification sheet). SunMizer is compatible with most 208V and 240V residential size inverters.

Built to Last

SunMizer is built in the USA by the solar products division of Xandex Inc. using the finest long-life components and materials. Since 1981, Xandex has designed and manufactured products used in the exacting semiconductor test industry. SunMizer is designed to last the lifetime of any solar installation and tested to rigorous Military and Telecomm quality standards that insure the highest level of quality, performance and long life. A weather-proof NEMA 6 (IP67) enclosure ensures that the unit will not be affected by dust intrusion, water or ice. Each unit is covered by a 20 year warranty with replacement labor provision. SunMizer is certified to the UL 1741 safety standard and the European CE and GS standards. All SunMizer components are RoHS compliant (lead, mercury and cadmium free).

For more information on how SunMizer optimizes PV energy harvest contact:

In the USA: Ted Wong at Xandex Inc. ✪ email: twong@xandex.com ✪ TEL: +1 (707) 763.7799
In the EU: Rob Redeker at Xandex B.V. ✪ email: rredeker@xandex.nl ✪ TEL: +31 24 845 0707



XANDEX INC. ✪ Solar Division ✪ 1125 N. McDowell Blvd. ✪ Petaluma, CA 94954 USA ✪ TEL: +1 (707) 763-7799
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