NEXTEK Power Systems, Inc.

NPS-R1000 Maximum Power Point Tracker

The NPS-R1000 MPPT is a 1000W electronic DC-DC converter that automatically adjusts current from the PV array in order to maintain operation at the maximum power point.

The NPS-R1000 is designed to interface between the NPS-1000 Power Gateway and a PV solar array.

Precise tracking around the PV array's maximum power point, even under varying conditions of temperature and solar irradiance, is achieved by microprocessor-based control.

High switching efficiencies (98% peak) are assured by pulse width modulation.

A low voltage disconnect (LVD), factory set to 40VDC, comes standard.

NEXTEK offers the NPS-904 PV Combiner Box to house up to four NPS-R1000 MPPT regulators for simple and code-compliant field installations.

For more information, see www.NextekPower.com or email info@NextekPower.com

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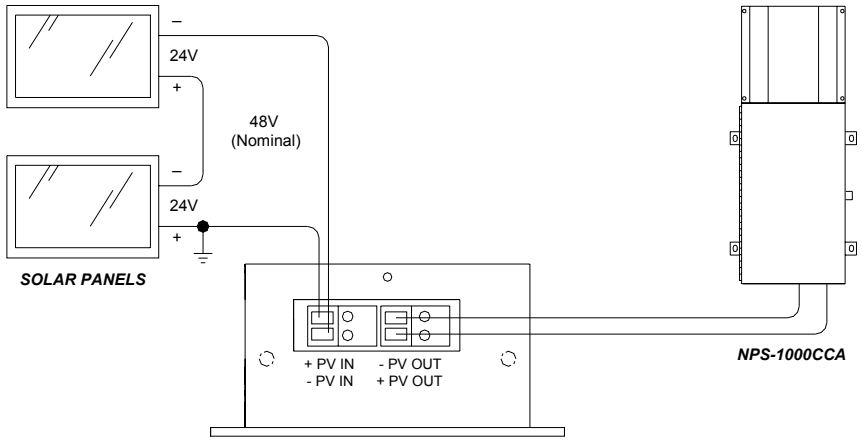
NPS-R1000 Specifications:

Output Power (Max.):	1000W
Input Voltage (Max.):	95VDC
Tracking Range:	54 to 70VDC
Output Voltage (Max.):	57.5VDC
Nominal Output:	18 Amps @ 54V
Power Conversion Efficiency:	98%
Temperature Range:	-40º to 60ºC
Environmental Rating:	Indoor Type 1
Dimensions:	5.1” W x 2.6” H x 4.2” D
Weight:	1lb. 2 oz.

The low voltage disconnect (LVD) feature may be bypassed for stand-alone operation.
(Call Nextek before ordering.)

Wiring to the NPS-1000



Mounting the NPS-1000

The NPS-R1000 should be mounted in an enclosure that provides environmental protection for outdoor installations, as well as adequate heat sinking. The NPS-904 PV Combiner Box is a NEMA 4, 12 enclosure for just such a purpose. It houses up to four MPPTs and is suitable for all outdoor applications.

NPS-904