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Inverter / Chargers • Marine Switchboards • Battery Chargers • Desalinators • Generators

Solar Boost Charge Controllers now available through Power Protection Solutions.

The Solar Boost Charge Controllers from Blue Sky Energy Inc, are a development of Maximum Power Point Tracking technology. Their patented technology delivers up to 30% more power from your PV Modules than conventional solar charge controllers.

Maximum Power Point Tracking, frequently referred to as MPPT, is an electronic system that operates the Photovoltaic (PV) modules in a manner that allows the modules to produce all the power they are capable of. MPPT is not a mechanical tracking system that "physically moves" the modules to make them point more directly at the sun. MPPT is a fully electronic system that varies the electrical operating point of the modules so that the modules are able to deliver maximum available power.



Solar Boost Charge Controllers increase charge current by harvesting more PV power. A conventional charge controller simply connects the PV module to the battery when the battery is discharged which can artificially limit how much power a PV module can deliver. Patented Solar Boost MPPT technology operates the PV module at its optimum voltage where it can produce the greatest amount of power rather than at battery voltage. The higher power extracted from the module is then provided to the battery as increased charge current. The actual charge current increase you will see varies primarily with module temperature and battery voltage. In comfortable temperatures, current increase typically varies between 10 to 25%, with 30% or more easily achieved with a discharged battery and cooler temperatures. What you can be sure of is that Solar Boost Charge Controllers will deliver the highest charge current possible for a given set of operating conditions.

Along with the Solar Boost Charge Controllers, Blue Sky Energy Inc also have remote monitoring displays for their units.

The IPN-Remote display provides basic monitoring for Blue Sky Energy's IPN compatible charge controllers. The unit displays battery voltage, output current and charge control system status for up to 8 charge controllers on a single IPN network.

The IPN-ProRemote combines full-featured charge controller monitoring and full battery system monitoring (including amp hours) into a single user friendly remote display.

With units available in 12, 24 & 48v and ranging from 25-60 amps with 3 step charging and temperature sensing, there is a Solar Boost Charge Controller for almost any marine/mobile or land based "off grid" application.

