



February 1, 2013

Re: Introduction of the Solar Boost 2512i–HV & Solar Boost 2512iX–HV

To support higher voltage 60 cell PV modules Blue Sky Energy has replaced the popular 12V 25A **SB2512i** and **SB2512iX** MPPT solar charge controllers with improved versions capable of processing the higher PV voltage delivered by 60 cell modules. The new products called **SB2512i–HV** and **SB2512iX–HV** supersede the original products for all shipments after February 1, 2013, although some –HV units shipped as early as 12/6/2012 based on stock on hand.

The –HV version products are fully backward compatible into all applications served by the previous products, and are identical to the previous products except for the following improvements.

1. Absolute maximum PV input voltage specification has been increased from 35V to 50V. This allows use of 60 cell modules with V_{OC} @ STC of up to 40V ($50V \div 1.25$).
2. The new products retain their original 25A 340W rating when used with conventional 36 cell 12V modules. When using 60 cell modules the units are rated for 20A output current and will support up to 270W. See Tech Bulletin 100214 for additional detail.
3. For improved corrosion resistance the galvanized steel mounting box is replaced with a black injection molded ABS case. The ABS case is somewhat deeper at 2.5" (6.4cm) to provide increased wire wrestling room. Physical size, mounting hole locations, etc. of the electronic unit are identical to the previous products such that the old style galvanized mounting box may be used if desired.

The 270W 60 cell rating is ideal for operating one 60 cell module per controller. With the SB2512iX–HV version multiple controllers communicate over Blue Sky Energy's IPN Network and coordinate their activities to charge the battery as a single coordinated charging machine. This modular approach to larger systems offers the added performance benefit of module level MPPT.

Please be assured that the original SB2512i and SB2512iX products continue to carry full factory warranty and support regardless of their sale date to the original consumer purchaser.