

SB3024i(L)DUO Option Upgrade

Combining Wind And Solar For Complete Power



Adds Integrated Diversion Type Charge Control for Wind/Hydroelectric To Existing MPPT PV Charge Control

Solar Boost 3024i and 3024iL MPPT charge controllers include a 20 amp load control output. The DUO-Option software upgrade converts the auxiliary output into a 20 amp Diversion type PWM charge controller. The DUO-Option upgrade allows a 3024 to provide charge control for hydroelectric, wind or similar DC generators requiring diversion type charge control while at the same time providing MPPT type PV charge control. The MPPT PV Power Controller and the new Diversion Power controller operate as a single coordinated charge control system fed by multiple power sources. Operation is similar to the coordinated operation of multiple 3024's on Blue Sky Energy's IPN Network. This coordinated approach provides superior battery charge control for hybrid systems compared to using a separate diversion charge controller.

Optimizes Diversion Power Control

A diversion charge controller regulates battery voltage by diverting a portion of the available charge current to a resistive dump load supplied by the user. With the DUO-Option the user may select either a Min-Power mode to provide minimum dump load heating, or a Max-Power mode where maximum power is delivered to the dump load. Min-Power mode is typically selected when diversion is used for charge control only and dump load power is not directed towards a useful purpose. Max-Power mode is typically selected when dump load power is directed towards a useful purpose such as heating water. The Max-Power mode may also be used with PV power alone if the user wishes to divert available PV power which is not required for battery charging to a useful purpose. For dump load applications exceeding 20 amps current booster module CBM4070 will support dump loads up to 40 amps. CBM4070 is driven by the auxiliary output of a DUO-Option equipped 3024.



Up To 20A
Dump Load

CBM4070 Current
Booster Module

Up To 40A
Dump Load

- Converts SB3024i(L) Auxiliary Output Into 20 Amp Diversion PWM Charge Controller For Wind or Hydroelectric Generators
- Provides Both MPPT PV Charge Control & Diversion Charge Control In The Same Unit
- Simple Plug-In Upgrade
- Available Current Booster Module Increases Diversion Current In 40 amp Increments
- Full 12 Month Limited Warranty

Part Number & Shipping Weight

Upgrade/3024 DUO.......SB3024i(L)
Software upgrade, converts SB3024i(L)
auxiliary output into Diversion charge controller

/DUO......0.0 lbs . 0.00kg Append /DUO to order p/n to obtain factory installed DUO-Option (e.g. SB3024iL/DUO)

CBM4070......1.6 lbs . 0.73kg Current Booster Module, 40 amp PWM

Available From:

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Covered under one or more of the following US Patents 6,111,391 • 6,204,645