

# ARGO Diode Battery Isolators



**Argo Diode Isolator 120A**



**Argo Diode Isolator 180A**

Diode battery isolators allow simultaneous charging of two or more batteries from one alternator, without connecting the batteries together. Discharging the accessory battery for example will not result in also discharging the starter battery.

The Argo battery isolators feature a low voltage drop thanks to the use of Schottky diodes: at low current the voltage drop is approximately 0,3 V and at the rated output approximately 0,45 V. All models are fitted with a compensation diode that can be used to slightly increase the output voltage of the alternator. This compensates for the voltage drop over the diodes in the isolator.

Please see our book 'Energy Unlimited' or ask for specialist advice when installing a diode isolator. Simply inserting the isolator in the cabling between the alternator and the batteries will slightly reduce charge voltage. The result can be that batteries are not charged to the full 100% and age prematurely.

| Argo Diode Battery Isolator                         | 702SC                              | 903SC                               | 1202SC                              | 1203SC                              | 1602SC                              | 1603SC                              |
|---|------------------------------------|-------------------------------------|-------------------------------------|-------------------------------------|-------------------------------------|-------------------------------------|
| Maximum charge current (A)                          | 50                                 | 70                                  | 100                                 | 100                                 | 130                                 | 130                                 |
| Maximum alternator current (A)                      | 70                                 | 90                                  | 120                                 | 120                                 | 160                                 | 160                                 |
| Number of batteries                                 | 2                                  | 3                                   | 2                                   | 3                                   | 2                                   | 3                                   |
| Connection  | M6 studs                           | M8 Studs                            | M8 Studs                            | M8 Studs                            | M8 Studs                            | M8 Studs                            |
| Connection compensation diode                       | M4                                 | M4                                  | M4                                  | M4                                  | M4                                  | M4                                  |
| Weight kg (lbs)                                     | 0,8 (1.8)                          | 1,2 (2.6)                           | 0,8 (1.8)                           | 1,2 (2.6)                           | 1,2 (2.6)                           | 1,5 (3.3)                           |
| Dimensions h x w x d in mm<br>(h x w x d in inches) | 60 x 120 x 80<br>(2.4 x 4.7 x 3.2) | 60 x 120 x 150<br>(2.4 x 4.7 x 6.0) | 60 x 120 x 100<br>(2.4 x 4.7 x 3.9) | 60 x 120 x 150<br>(2.4 x 4.7 x 6.0) | 60 x 120 x 150<br>(2.4 x 4.7 x 6.0) | 60 x 120 x 200<br>(2.4 x 4.7 x 7.9) |

