

# DA290

12V DC Battery low voltage isolator  
With 9V DC disconnect

*This product is designed to protect and extend the life of lead acid batteries from deep discharge damage. Normal lead acid batteries are commonly manufactured with thin plates, very porous separators and low density plate oxides which cause the battery to break down during deep discharge; within a few deep cycles most batteries lose around half their total usable capacity. Once drained to a critical level the battery voltage then starts to drop rapidly. This isolator will disconnect the battery from the load when it reaches 9V, protecting the battery from a deep discharge. Once the battery is re-charged the DA290 will automatically re-connect by default at 11.5V.*

| Switching contact                         |  |
|---|--|
| Contact configuration                     | Single pole change over                  |
| Disconnect voltage                        | 9V DC                                    |
| Re-connect voltage                        | 11.5V DC                                 |
| Voltage                                   | Maximum 14V DC                           |
| Current                                   | Maximum 5A                               |
| Connection type                           | PCB terminal block (2.5mm <sup>2</sup> ) |
| Input                                     |  |
| Voltage                                   | 10.5 to 14V DC                           |
| Power consumption                         | < 0.05mA                                 |
| Connection type                           | PCB terminal block (2.5mm <sup>2</sup> ) |
| Environmental                             |  |
| Operating temperature                     | -10°C to +40°C                           |
| Storage temperature                       | -20°C to +50°C                           |
| Operating relative humidity               | Maximum 95% non-condensing               |
| Dimensions*                               |  |
| Width                                     | 90mm                                     |
| Height                                    | 50mm                                     |
| Depth                                     | 20mm                                     |
| Weight                                    | < 0.05Kg                                 |
| Enclosure material                        | Acrylonitrile Butadiene Styrene (ABS)    |
| Finish                                    | White                                    |
| Other                                     |  |
| Estimated mean time before failure (MTBF) | 50,000 hours                             |
| CE Approved                               | Yes                                      |
| Battery connect indication                | Green LED indication (On = Connected)    |

\*(+/- 2mm)