

# 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)