

# SOLID STATE BATTERY GUARDS

Our Solid State Battery Guards monitor the source voltage and disconnect the equipment from the battery if the voltage falls below a pre-determined level, ensuring there is always sufficient voltage remaining to start a vehicle engine or ensure power is available for critical applications.

Our Solid State Battery Guards can also be set to disconnect equipment at a lower voltage, protecting the battery from total discharge, while allowing for maximum battery usage.

- **Fully programmable**  
for a variety of scenarios offering higher or lower disconnect voltages.
- **Audible alarm and/or visual indicator**  
can be installed in the dashboard or cockpit to alert operator of a potential problem.
- **Manual shutdown facility**  
either through the ignition or a dedicted switch.
- **Easy installation**  
with a three point mounting system to avoid rocking or stress to electronics when mounted on uneven surfaces.



PART #	13-1001	13-1002	13-1003
CURRENT	60A	100A	200A
INPUT VOLTAGE	9VDC - 32VDC (AUTOMATIC REFERENCING)		
OUTPUT VOLTAGE	EQUAL TO INPUT VOLTAGE WHEN OPERATING (MAXIMUM OF 100MV DROP ACROSS TERMINALS)		
TRANSIENT OVER CURRENT RATING (% OF CONTINUOUS VALUE)	110% FOR 10S, 200% FOR 1S, 300% FOR <0.5MS, ON OVER CURRENT SHUTDOWN THERE IS A RETRY EVERY 30S		
QUIESCENT CURRENT WHEN SHUTDOWN (WHILE RUNNING)	4MA @ 13.6V	6MA @ 13.6V	6MA @ 13.6V
<b>TEMPERATURE</b>			
OPERATING TEMPERATURE	-25°C TO +60°C TO MEET THIS SPECIFICATION TABLE		
STORAGE TEMPERATURE	-25°C to +100°C		
<b>ENCLOSURE</b>			
INGRESS PROTECTION	IP65		
CASEWORK	SILVER ANODISED ALUMINIUM, GLASS FILLED POLYCARBONATE		
CONNECTIONS	M6 RING TONGUES	M10 RING TONGUES	M10 RING TONGUES
OUTPUT INDICATOR	GREEN LED FOR PROGRAMMING AND OUTPUT INDICATION		
MOUNTING METHOD	3 OFF HALF INCH N08 POZI PAN HEAD SCREWS (SUPPLIED)		
SAFE AREA PROTECTION:			
OVER CURRENT	LIMITED BY CURRENT SENSING CIRCUIT		
OVER HEAT	LIMITED BY TEMPERATURE SENSING CIRCUIT		
TRANSIENTS	PROTECTED BY FILTERS AND RUGGED COMPONENT SELECTION		
CATASTROPHIC PROTECTION	SET BY EXTERNAL INPUT FUSE (SET BY DEFAULT DEMANDS) AND GROUND LINE FUSE MAX 1A		
DIMENSIONS (MM)	76 x 78 x 33	124 x 97 x 51	124 x 97 x 51
WEIGHT (KG)	0.155	0.530	0.530
TRANSIENT VOLTAGE PROTECTION	MEETS ISO7637-2 INTERNATIONAL STANDARDS FOR 24V VEHICLES		
ELECTROSTATIC VOLTAGE PROTECTION	MEETS ISO10605, >8KV CONTACT, 15KV DISCHARGE		
APPROVALS	2014/30/EU THE GENERAL EMC DIRECTIVE, REGULATION 10 THE AUTOMOTIVE DIRECTIVE, 93/68/EEC THE CE MARKING DIRECTIVE, AES5		
DESIGNED TO	EN50498, ISO 7637-2		
MARKINGS	CE, UKCA AND E (AUTOMOTIVE) MARKED		