



# Electrical Battery Isolator

## Electrical Latching Battery Isolator 160-640A



### Electrical battery isolators:

Are designed to isolate the battery bank remotely or automatically to preserve the charge in the battery bank. It can also be used to isolate the battery to prevent a fire in the event of an accident.

The product uses 0A when off and only minimal amounts when running an LED. The latching event draws about 2A for about 0.25 seconds.

This product comes complete with a remote spring load switch with an LED ( on ) remote and local indicator, which can be de activated if power loss is a priority.

Large 8mm or 10mm studs (unit dependent) ensure good contacts for electrical cables.

IP68 rating allows the unit to be mounted anywhere.

These are 12 or 24V, however, due to the low instantaneous power consumption of the switching mechanism you can tap the voltage from a higher voltage battery to use a lower rated product i.e. if you only have a 12V unit and a 24V battery bank then simply tap 12V of the 24V battery. If you have a 48V forklift then simply tap off 12V or 24V depending on the unit.

160 and 320A  
continuous  
1200A  
intermittent



### Isolated switching and control circuit:

The control circuit is totally isolated from the switching circuit, this allows the unit to switch on either the positive or negative side of the battery. Also the battery it switches need not be the battery where the control voltage comes from. I.e. you could have a 12V control system with a 36V battery bank you wish to switch, this is not a problem.

### Latching relay technology:

This is very important because along the control voltage requires 8-32V to operate the switch, because such little power is used to operate the switch it can easily be used on a 36V or 48V ( + ) system as you can tap off 12V to operate the control circuit without any fear of damaging a larger battery bank.

### Multiple operational points:

This product is totally flexible with no real limitation as to how many points the product can be operated from, simply purchase more momentary switches if required.

**Key lock optional:** the unit comes with a momentary rocker switch to operate the unit.



640A  
continuous  
2400A  
intermittent

All models include:



3 way momentary rocker switch + engage lamp  
*extra rocker switches available for multiple operational points.*

# Electrical Battery Isolator

## Electrical Latching Battery Isolator 160-640A



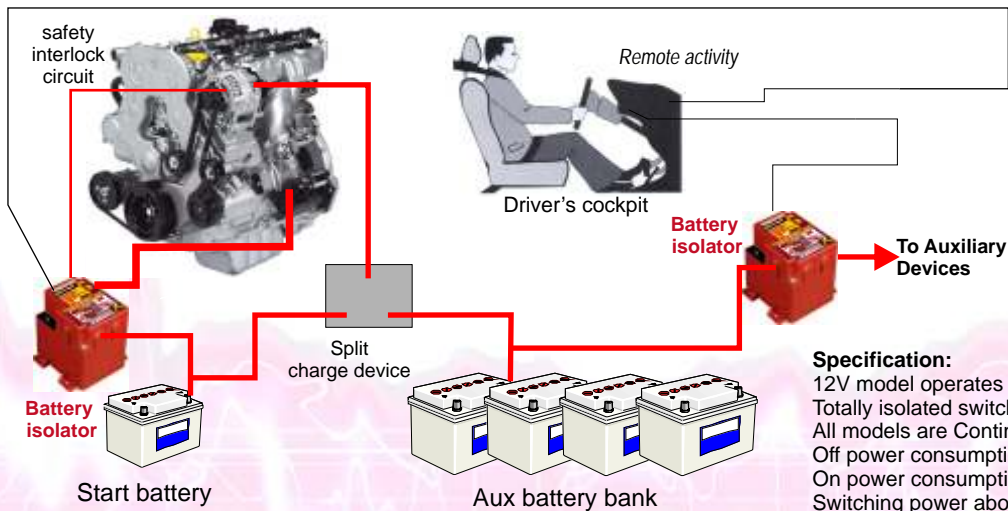
### D+ alternator or ignition feed safety interlock circuit:

The unit has an alternator D+ interlock which, if connected to the alternator D+/61 or other ignition feed stops the switch from working. I.e. if the engine is running the switch will not operate until the engine ignition is switched off or the alternator is powered down. This minimises the risk of any potentially expensive damages to the vehicle's alternator or engine management system.

**Rating:** The product's ratings are their continuous rating i.e. full current all day, this can be used to calculate if the product is suitable for aux battery systems such as marine domestic battery banks or vehicle secondary battery banks, simply ensure that the continuous load application does not exceed the rating of the product.

**Cold cranking/ engine start:** These units have a very large overload rating (5sec rating/ cold cranking). The 160A model would be ideal for most auxiliary battery isolations, a small petrol engine such as a marine outboard would be okay, yet, it is best to start at the 320A version if an engine start is required.

**Other relevant product:** Which could go with this unit if used for engine isolating, the **alternator protection device** can be fitted to the engine alternator so that in the event of accidental switching then the engine alternator will be protected.



### Specification:

12V model operates down to 8V / 24V models down to 16V  
 Totally isolated switching voltage from control voltage  
 All models are Continuous current rated  
 Off power consumption = 0.000A  
 On power consumption 1.5mA - 0.0015A LED Consumption  
 Switching power about 2A for 0.5 seconds

### Electrical Battery Isolator

Continuous rating:	5 sec	30 sec	starter rated	Size	Weight	Power con	Control voltage	Part number
160 Amps	1500 A	600 A	Not suitable for engine start	80x90x90H	0.2 kg	0 amps	12 v	ELB12160
160 amps	1500 A	600 A	Not suitable for engine start	80x90x90H	0.2 kg	0 amps	24 v	ELB24160
320 Amps	3000 A	1200 A	Car & small van, Petrol boat	80x90x90H	0.2 kg	0 amps	12 v	ELB12320
320 amps	3000 A	1200 A	Car & small van, Petrol boat	80x90x90H	0.2 kg	0 amps	24 v	ELB24320
480 amps	4500 A	1800 A	lorry, diesel Plant up to 600hp	150x100x120H	0.4 kg	0 amps	12 v	ELB12480
480 amps	4500 A	1800 A	lorry, diesel Plant up to 600hp	150x100x120H	0.4 kg	0 amps	24 v	ELB24480
640 amps	6000 A	2400 A	lorry, diesel engines up to 1000hp	150x100x120H	0.4 kg	0 amps	12 v	ELB12640
640 amps	6000 A	2400 A	lorry, diesel engines up to 1000hp	150x100x120H	0.4 kg	0 amps	24 v	ELB24640
Extra momentary switch (one supplied standard in each kit)								
Key operated switch with 2 keys (optional extra) Please note only momentary switches can be used with this product								
								ELS1
								ELKS1



www.sterling-power.com

Unit 8  
 Wassage Way  
 Hampton Lovett Ind Est  
 Drotwich  
 WR9 0NX  
 Tel: 01905 771771  
 Fax: 01905 779434  
 e mail: help@sterling-power.com  
 web: www.sterling-power.com  
 www.sterling-power-usa.com

