

Electrical Latching Isolation Switches

Electrical Latching Battery isolation switches (ELBs) are used to completely isolate a battery bank to prevent any unwanted current drain from taking place. Typically users want to cut leaking from their starting system and from their appliance system. The key features to look for when selection ELBs are: Continuous rating (A), overload rating (A) and then the current draw when the ELB is on and off. Sterling's ELBs excel in all these key features. Built to **IP66**

160A - 640A Latching circuit rating: The products rating are their continuous rating. Work out what the continuous load shall be in order to rate the ELB to the correct specification.

The battery powering the ELB does not have to be the battery that you wish to isolate.

Up to 50V for the latching circuit: The latching circuit is fine for voltage ratings up to 50V.

The latching circuit and the control circuit are isolated. This is extremely important and means that the unit can latch on the **negative** or the **positive** of the battery that you wish.

D+ alternator ignition feed safety interlock circuit: If the latch position changes when the alternator is running damage can befall the engine/alternator. To prevent this, a signal override system has been installed. This signal (D+/61/ign feed) will prevent the switch position changing. Only when the signal has abated (engine turned off) will the latching relay switch.

Latching relay technology uses no current to stay closed or opened circuited. This means latching relays will not consume current from your system when turned on or off. The switching consumption does use current - about 2A for 0.5 seconds.

Key lock optional: the unit comes with a momentary rocker switch to operate the unit, however, you can purchase a key lock option if required.

Cold cranking / engine start: The ELBs can handle 1500A-6000A over 5 seconds and 600A to 2400A over a 30 second cranking period (model dependent).

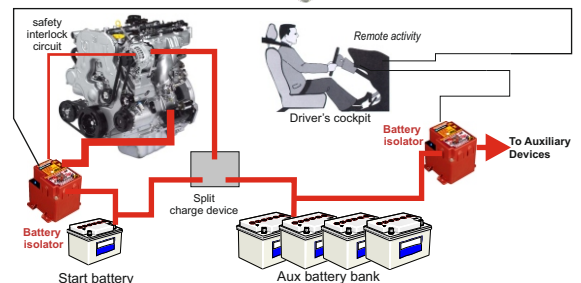
480 and 640A models

The control circuit is powered by either 12V (low as 8V) or 24V (low as 16V). Due to the low instantaneous power consumption of the controlling circuit you can tap the voltage off a larger bank 36V / 48V bank.



8mm studs ensure good contact for electrical cables.

160A and 240A models



| Electrical Battery Isolator | | | | | | | | |
|--|--------|----------------|----------------------|-------------|----------|-----------|-------|----------|
| Intermittent | | Starter rating | LWD mm | Weight Kg | Cont (A) | Control V | SKU | |
| Continuous rating: 5 sec | 30 sec | | | | | | | |
| 160A | 1500A | 600A | Not suitable starter | 90x90x80 | 0.2 | 0 | 12 | ELB12160 |
| 160A | 1500A | 600A | Not suitable starter | 90x90x80 | 0.2 | 0 | 24 | ELB24160 |
| 320A | 3000A | 1200A | Car/small van | 90x90x80 | 0.2 | 0 | 12 | ELB12240 |
| 320A | 3000A | 1200A | Car/small van | 90x90x80 | 0.2 | 0 | 24 | ELB24240 |
| 480A ** | 4500A | 1800A | lorry, up to 600hp | 150x100x120 | 0.4 | 0 | 12 | ELB12480 |
| 480A ** | 4500A | 1800A | lorry, up to 600hp | 150x100x120 | 0.4 | 0 | 24 | ELB24480 |
| 640A ** | 6000A | 2400A | lorry, up to 1000hp | 150x100x120 | 0.4 | 0 | 12 | ELB12640 |
| 640A ** | 6000A | 2400A | lorry, up to 1000hp | 150x100x120 | 0.4 | 0 | 24 | ELB24640 |
| Extra momentary switch (one supplied standard in each kit) | | | | | | | ELS1 | |
| Key operated switch with 2 keys (optional extra) N.B only momentary switches can be used | | | | | | | ELKS1 | |
| ** These units can be used in conjunction the Start Pro Tech | | | | | | | | |