LIMITED WARRANTY

Lind Electronics, LLC. (LIND) warrants the circuit assembly portion of products manufactured by it to be free of defects in material and workmanship for a period of 3 years* from the date of purchase under normal use. During this warranty period, LIND will, at its option, repair or replace the product at no charge for parts or labor when the product is returned postage paid as a complete unit to LIND. Proof of purchase and a letter explaining the problem must accompany the returned unit.

This warranty does not apply if any part of the adapter, its cables or connection jacks have been altered, subjected to abuse, accident or misuse. This warranty excludes incidental or consequential damage resulting from the product or the use of the product. This warranty is in lieu of all other warranties expressed or implied and no person is authorized to assume for LIND any other liability in conjunction with this product. The warranty gives you, the purchaser, specific legal rights and you may have other rights which may vary from state to state and country to country.

The LIND product you are purchasing has not been designed for, or certified for use in, life support applications. Any such use is at your own risk. LIND ELECTRONICS, LLC. HEREBY EXPRESSLY DISCLAIMS ANY IMPLIED WARRANTIES OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE. Lind Electronics, Inc. will not be liable for any claims, awards, damages or other liability arising out of the use of LIND products for life support applications whether in the nature of direct, indirect, consequential, special or punitive damages.
*1 year warranty on custom built adapters and adapters with permanently attached (hardwired) cables.

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VOLTVAULT HIGH-POWER SHUTDOWN TIMER

Modern fleets demand more power than ever, and the Lind High Power Shutdown Timer is built to keep up. Designed for automotive, truck, RV, and fleet applications, this rugged DC timer automatically cuts power to auxiliary devices after a preset time — protecting your battery and keeping your systems running efficiently.

Compact, cost-effective, and tough as they come, it's engineered with 80A capacity, solid-state reliability, and single-side terminals for easy installation and clean cable management. From lights and radios to inverters and custom gear, the High Power Shutdown Timer keeps your power in check and your vehicles mission-ready.

*Contact Lind at (800) 659-5956 or via email at **techsupport@lindelectronics.com** to place an order or for help with any questions.*

OPERATING INSTRUCTIONS

Our High-Power 80A Shutdown Timer is a solid-state device that does not use conventional electromechanical relays.

The unit is normally activated by sensing the ignition line. When vehicle ignition is removed, the timed sequence begins. If ignition is not readily available, the timer will automatically sense battery voltage to determine when the vehicle is on or off to begin timing. An emergency (override/lockout) switch on the timer allows for 15 minutes of operation beyond the timed sequence if pressed for less than 3 seconds. If the same switch is pressed for more than 3 seconds, it will activate a lockout function which will turn the unit off completely. Removing and reapplying power, or pressing and holding the switch again for more than 3 seconds will enable normal mode again. This lockout feature is intended to be used after installation is complete and while the vehicles are in transit to their final destination.

TIMER START

If the battery voltage is above 13.5 volts while the engine is running and no ignition connection is used, the timer will not start timing. The Shutdown Timer will start when the engine is turned off and the battery voltage drops below 13 volts.

Optional connection of the IGN terminal will cause the timer to start when the ignition switch is opened and the battery voltage is below 13 volts.

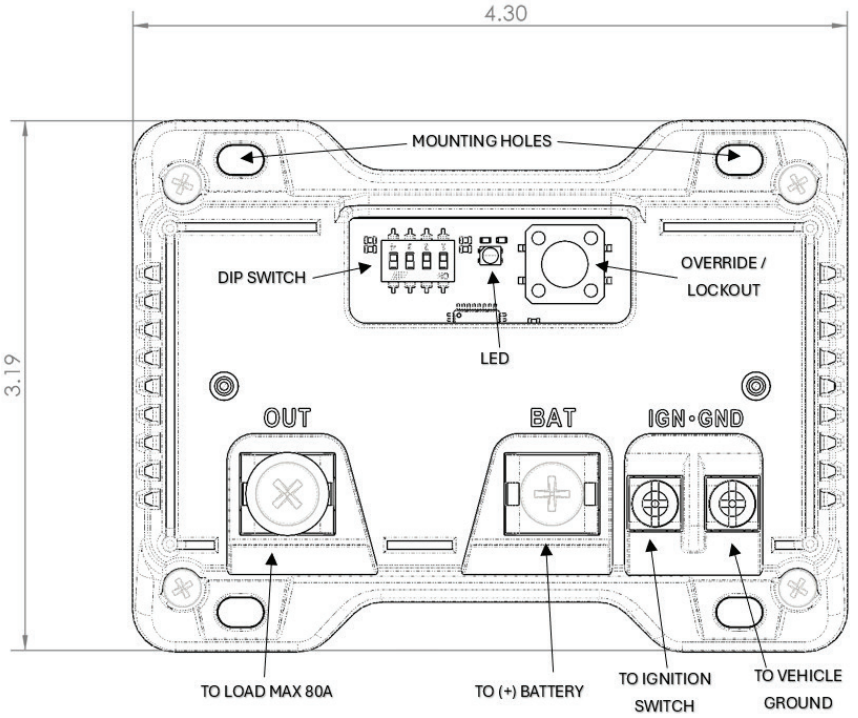
Special Note: If the vehicle's electrical system does not exceed 13.5 VDC while the engine is running, the IGN terminal connection must be used; otherwise, the Shutdown Timer may not operate correctly.

FEATURES

- Adjustable Shutdown Delay Time
- High and Low Voltage Shutdown
- High-Power Solid-State Design – Handles up to 80A continuous current
- Reverse Polarity Protected
- Automatic Battery Voltage Sensing Activation (battery not charging = timer ON)
- Optional Ignition Switch Activation (ignition OFF = timer ON)
- Extended timing available up to 24 hours on customer request
- LED Indicators for ON, OFF and TIMING
- Lockout for easy vehicle transport
- Override Emergency Operation Switch (up to 15 minutes)
- Automotive Load Dump Protection

TECHNICAL INFORMATION

Battery Voltage Sensing Turn-on Threshold:	> 13.5 volts
Battery Voltage Sensing Timer Start Threshold:	< 13.0 volts
Optional Ignition On Threshold:	> 5 volts
Optional Ignition Off Threshold:	< 2.5 volts
LED Flash Rate - Normal Timing:	2 second
High Battery Voltage Disconnect Threshold:	> 18 volts
Low Battery Voltage Disconnect Threshold:	10 volts
Low Battery Voltage Disconnect Delay:	> 10 seconds
Input Voltage Range:	10-18 volts
Maximum Load:	80 amps
Current Draw in OFF Mode:	3.7 mA
Current Draw in ON/TIMING Mode:	8.5 mA
Adjustable Shutdown Delay Time:	0-4 hours
Over-ride Mode Time Setting:	15 minutes (over-rides time adjustment setting)
Operating Temperature:	-20 - 75°C (-4 - 167°F)
Screw Size:	M5 (#10) ring or spade terminals suitable for 4 AWG wire



INSTALLATION

• Mount the Shutdown Timer in a cool, dry place. The Shutdown Timer is connected between the +12 volt of the vehicle electrical system and the loads to be controlled. The loads may be radios and computers or other electrical loads (lights and flashers).

• The Shutdown Timer terminal marked +BAT must be connected to the system +12 volts through a suitable fuse, using appropriately sized wire. Better protection is provided if multiple loads are fused individually between the Shutdown Timer and the load.

Current (A)	5 ft	10 ft	15 ft	20 ft
10	14 AWG	12 AWG	10 AWG	10 AWG
20	12 AWG	10 AWG	8 AWG	8 AWG
30	10 AWG	8 AWG	6 AWG	6 AWG
40	10 AWG	6 AWG	4 AWG	4 AWG
50	8 AWG	6 AWG	4 AWG	2 AWG
60	8 AWG	4 AWG	2 AWG	2 AWG
70	6 AWG	4 AWG	2 AWG	1/0 AWG
80	4 AWG	2 AWG	1/0 AWG	2/0 AWG

- Load is connected to the OUT terminal
- Connect the GND terminal to a good chassis ground. The Shutdown Timer is powered from the +BAT input and the ground.
- Activation of the Shutdown Timer's timing period may be automatic by either sensing the battery voltage drop when the engine is turned OFF or by the optional IGN connection to the ignition switch..
- For the ignition switch activation option, connect the IGN terminal of the Shutdown Timer to the ignition switch terminal that goes to zero volts when the engine is turned OFF.
- The GND and IGN connections carry very little current (< 0.1 amp). Wire gauge is determined by mechanical suitability. Strip back wires 0.25" prior to installation.

Note: When using the ignition switch option, the Shutdown Timer period will not start if the engine dies.

TESTING

- With the engine running the green LED will be ON and power is applied to the loads.
- Turn the engine OFF and the green LED will flash at a 2 second interval to indicate normal timing.
- Load is connected to the OUT terminal
- Momentarily close the over-ride switch. The green LED will flash at the normal rate indicating normal timing in over-ride mode. The over-ride switch will provide 15 minutes of additional operation after the normal time period has been completed, even with battery voltage lower than 10 volts. The over-ride switch does not work if the output is already on.

Notes:

- *The Shutdown Timer outputs will turn ON if the automobile battery is charged from an external source. The output loads should be turned OFF when externally charging.*
- *The low voltage detection circuit has a 10 second delay to avoid load disconnection when starting the automobile.*
- *If the battery voltage stays below 10 V for 10 seconds, the unit shuts down and the ignition input is ignored. The LED flashes red once per second while this condition persists. If the voltage remains above 11.5 V for 10 seconds, the unit returns to Normal.*
- *If battery voltage falls below 6 V, the unit shuts down immediately and the LED flashes red once per second for 10 seconds. If voltage stays above 11.5 V for 10 seconds, it returns to Normal.*
- *If the battery voltage exceeds 18 V, the unit immediately enters the Shutdown state regardless of the ignition input. The LED flashes red twice per second. Once the battery voltage drops below 16 V for 10 seconds, the unit automatically returns to the Normal state.*
- *If the system is in the Normal state and the override/lockout switch is held LOW for more than 3 seconds, the unit enters Lockout mode. The LED flashes red three times, each lasting 0.5 seconds, repeating every 20 seconds. Another long press (>3 seconds) exits Lockout and returns the unit to Normal. During Lockout, the IGN input is ignored.*

DELAY TIME SET-UP

Your Lind High-Power Shutdown Timer gives you full control over how long connected devices stay powered after ignition is turned off. Use the chart below to configure your desired delay time by adjusting the four DIP switches on the unit. Each combination represents a preset interval — from instant shutoff to a 3-hour delay. Slide the switches to match your preferred setting, and your system will handle the rest automatically — no guesswork, no hassle, just reliable performance every time.

Dip Switch (Switch 1, 2, 3, 4)	Timer Values
0000	0 Seconds
0001	1 Minute
0010	5 Minutes
0011	10 Minutes
0100	15 Minutes
0101	30 Minutes
0110	1 Hour
0111	1 Hour 15 Minutes
1000	1 Hour 30 Minutes
1001	1 Hour 45 Minutes
1010	2 Hours
1011	2 Hours 15 Minutes
1100	2 Hours 30 Minutes
1101	3 Hours
1110	3 Hours 30 Minutes
1111	4 Hours

NOTES