



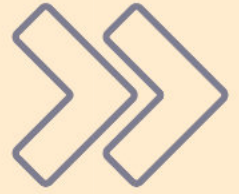
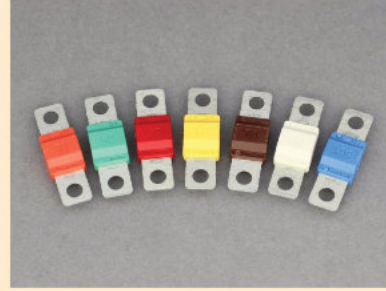
PRODUCT GUIDE / APPLICATION NOTES

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Vehicle Electrical Systems Present Many Challenges

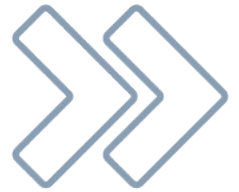
Ensure Operator Safety with Proper Circuit Protection

- No concrete electrical standards for upfitting
- Many circuits installed without proper protection
- Tie-in to OEM electrical systems often results in redundant protection that unnecessarily increases voltage drop and wire temperatures
- Poor protection can result in electric smoke/fire damage if circuits are shorted or overloaded



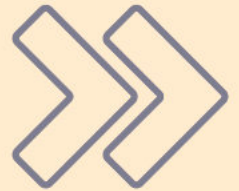
End Dead Battery Events With Time Delay Relays

- New vehicle builds are increasingly complex
- Most devices do not shut-off automatically
- End components require different delay off timing
- Relying on operators to shut-off loads is risky
- Costs of dead batteries add up quickly
 - Battery replacement
 - Roadside assistance jump starts
 - Lost vehicle / operator time



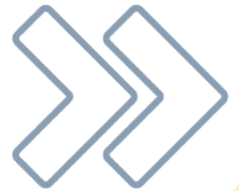
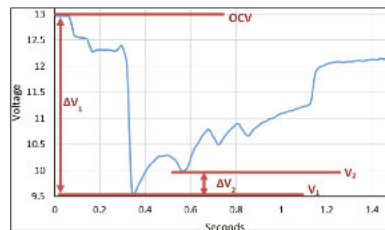
Extend Engine Off Device Usage Through Laptop Control

- Laptops replacing embedded computers
- No-idle rules increase laptop use with engine off, but frequency and duration is unpredictable
- Laptop chargers drain vehicle batteries fast
- Dead vehicle and laptop batteries are the result
- Dead laptops need a minimum recharge time before able to be used



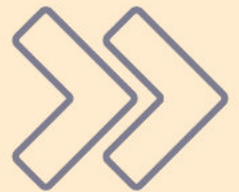
Fix Conflicts Between OEM and Radio, Lights, & Video Systems

- Majority of next gen systems fail to meet OEM level electrical emissions standards
- Modern upfit systems are very sensitive to normal OEM transient surges and spikes
- Power demands with or without vehicle running continue to grow, stressing the OEM system



Protect Vehicle Investment With a Reliable Electrical System

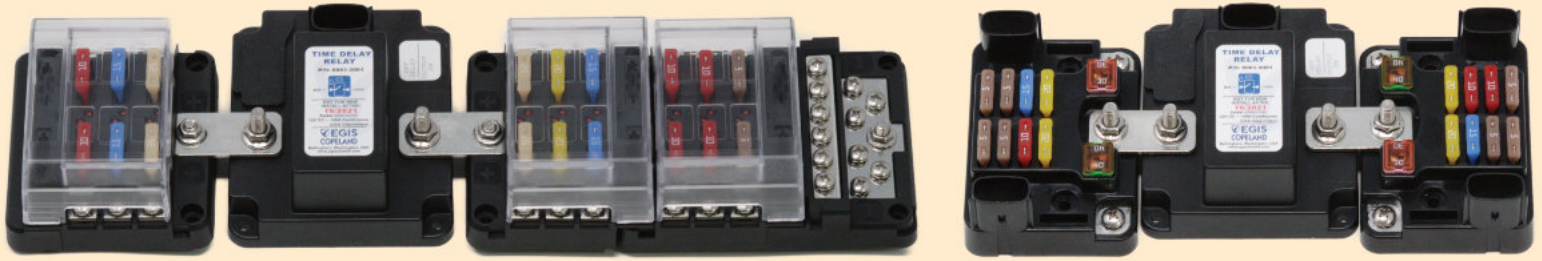
- Installs increasing in complexity and cost but budgets remain tight, compromises are necessary
- Without clear specifications, the use of lowest cost products with poor quality is much higher
- Outcomes include premature component failures, poor supplier support, and vehicle down-time



Maximize Vehicle Up-Time With Robust Electrical Solutions

Balanced Approach to Modularity / Servicability

Our emphasis on modular components maximizes situational flexibility and upgrade paths. Leverage our building block approach across all types of installs to maximize re-usability. The result is both short and long term cost savings.



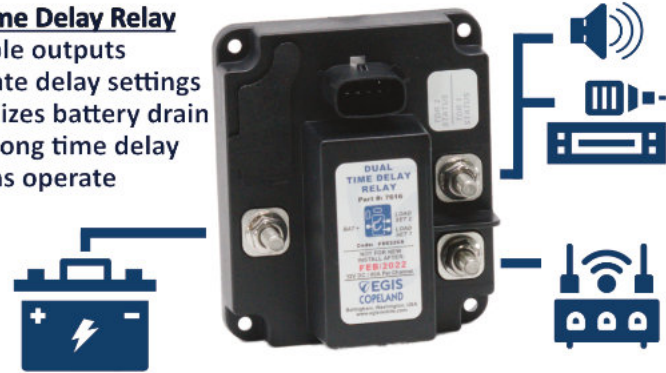
Time Delay Relay (TDR)

- Loads shut-down when engine off, saves battery
- Programmable time delay
- Under and over voltage protection for electronics



Dual Time Delay Relay

- Multiple outputs
- Separate delay settings
- Minimizes battery drain while long time delay systems operate

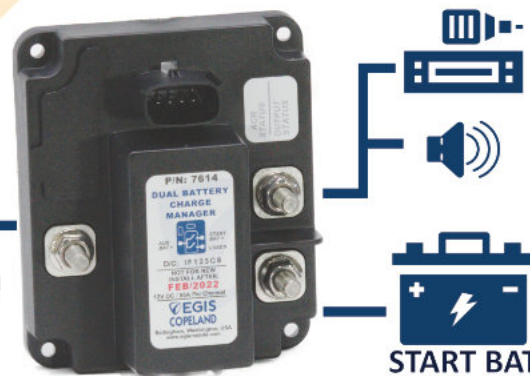


Laptop Power Manager

- Laptop connection warns operator of impending off
- Ability to delay off event if additional time required
- Can control more than just laptop... entire build

Dedicated Auxiliary Loads Battery

- Ensures start battery never drained & available
- Adds power capacity for extended engine off loads



Dual Battery Charge Manager

- Ensures aux battery charged
- Isolates batteries if no charge source present
- Time delay relay turns off loads when vehicle is off

Materials Make the Difference

- Stainless steel is corrosion resistant / galvanic neutral
- Tin plating protects terminals from progressive degradation

Auto OEM Solutions Work

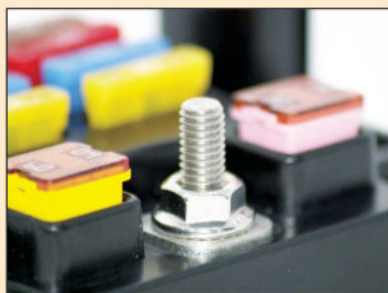
- Specify sealed connectors for low-amp circuits
- Field serviceability critical

Improve Connection Longevity

- Ring terminals lower voltage drop, improve vibration, and will not 'relax' over time.
- Self-locking screws and nuts provide vibration withstand

Consider Future Maintenance

- Labels that identify specific circuit function ensure rapid future troubleshooting



Product and Application Solutions

Timer Delay Relays

New for 2019

- Ignition and/or V-Sense Triggered
- Single / Dual Output Options
- T-delay from 0 to 31 hours
- Ultra-low Off State Power Draw
- Fully Sealed / Stainless Hardware
- 4 Year Warranty
- Custom Configurations Available



7601
160 Amp TH Series
Time Delay Relay



7616
2x80 Amp Dual Output
TH Series Relay



5601
30 Amp PT Series
Time Delay Relay



5602
40 Amp Total Dual
Output PT Series TDR

Legacy Products

- Ignition and/or V-Sense Triggered
- T-delay from 5 min to 31 hours
- Low Off-State Power Draw
- Laptop Controlled Solution Option
- Fully Sealed Configurations
- 2 Year Warranty
- 25 Years Proven Reliability



4101
Laptop Controlled
12 Amp Timer Relay



6001
Top HAT
High Amp Timer



5001
25 Amp
Power Tamer



6301/8001
Programmable Solid
State Timer Relays

Fuse Blocks (New!)

- Sealed / connector Output Option
- Stainless Steel Self-Locking Hardware
- Tin Plated Copper Alloy Conductors
- LED Blow Fuse Indicator Options
- Custom Circuit Label Sheets Available
- Modular Solutions - Re-Configurable
- Optional Interconnect Busbars
- Optional Output Wire Harnesses
- 4 Year Warranty



5015
8+2 ATO/LP-J Case
Fuse Block



8025/8028
6 Pos Fuse Block
Optional Gnd Return



8026/8029
12 Pos Fuse Block
Optional Gnd Return



8031/8032
18 Pos Fuse Block
Optional Gnd Return



Ground Blocks / Misc

- Sealed and Unsealed Solutions
- Optional Wire Harness Assemblies
- Stainless Steel Self-Locking Hardware
- Tin Plated Copper Alloy Conductors
- 4 Year Warranty



4605
Harness for 5015 Fuse
Block (20/10/5 feet)



2012
12 Pos 150 A
Sealed Busbar



8030
12 Pos 120 A Ring
Terminal Busbar



901028
Inline ATO/ATC
Holder

System Solutions

- Combo Solutions Save Time/Space
- Combined Switching and Fuses
- Leverage Automatic Intelligence
- Patent Pending Combined Functions
- Customize Solutions Available
- Up to 4 Year Warranty



7614
Dual Battery Manager
80A TDR / 80A ACR



Complete 24 Hr / Switched Circuit
Relay / Fuse Systems



1401 / 1402
Mobile Refrigeration
Power Optimization

< 2

Days Order
to Ship



Engineered
To Last



Custom
Solutions

4

Year
Warranty



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