

Ultra Compact Solution Combines 24/7 Power, Ignition Switched Power, and Time Delay Switched Off Power for Intelligent Battery Protection. Also Includes Fused Wire Protection, a Ground Return Buss, and an Optional Manual Kill Switch.

Reduce Space Used and Total Installed Cost:
Four (4) Separate Functions in One Product

Three (3) High-Amp (1-45A) Outputs Allow Protection of All Incremental Circuits Within One Complete Solution

Three Flexible Output Groups Can Be Set to 24/7, Ignition Switched, or Time Delay

Expandable Up to 31 Fused Outputs with RT or CT series Fuse Blocks



Cover Not Shown
Fuses Sold Separately

**PATENT
PENDING**



P/N: 2601B



Ultra Low (1.3 mA) Off-State Current:
Ensures sufficient battery energy after storage



Optional Under and Over Voltage Protection prevents battery and electrical load damage, can optionally be applied to 24/7 configured outputs for additional protection.



LED Indicators for On/Off, Blown Fuse Indication, or Voltage/Temp Abnormalities



Ignition or V-Sense trigger options for on/off.



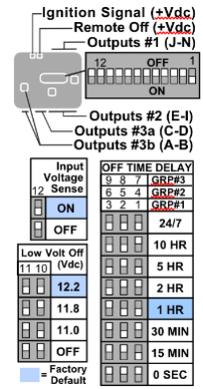
Remote and Local Kill Switch Options:
Provide unique ability to isolate all auxiliary loads, including optionally outputs set to 24/7



4 Year Industry Leading Warranty

Dip Switch Setting Options & Features

*** DISCONNECT BATTERY FROM POWER DISTRIBUTION SYSTEM BEFORE INSTALLING PRODUCT TO PREVENT ELECTRICAL SHOCK OR PRODUCT DAMAGE**
*** DIP SWITCH CHANGES REQUIRE A DEVICE RE-BOOT OR CHANGE IN ON/OFF STATE BEFORE BEING REGISTERED AND TAKING EFFECT**



DS1-DS3 sets delay between Off Trigger and Group #1 Outputs OFF. 0 SEC Provides Ignition Switched, 24/7 provides constant power

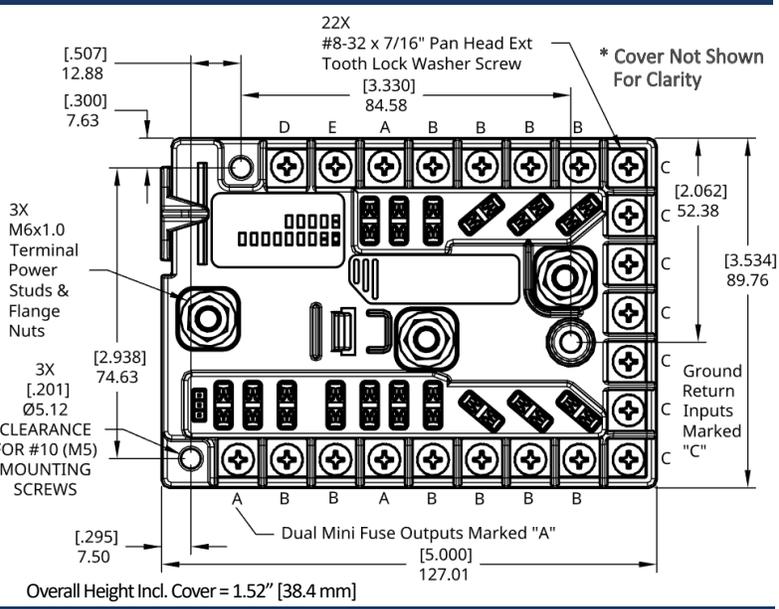
DS4-DS6 sets delay between Off Trigger and Group #2 Outputs OFF. 0 SEC Provides Ignition Switched, 24/7 provides constant power

DS7-DS9 sets delay between Off Trigger and Groups #3a & #3B Outputs OFF. 0 SEC Provides Ignition Switched, 24/7 provides constant power

DS10-DS11 defines Low Voltage Disconnect (LVD) level, If enabled, (15 sec OFF delay if V_{Bat} < setting), All outputs turn off including 24/7 configured. Ignition Input at +Vdc overrides this function.

DS12 determines whether the Output Groups utilize Input Terminal Voltage Sense to turn on or trigger Off time delay. This allows PDM operation without external ignition input signal. If DS12=ON, PDM will turn switched outputs ON if Input Terminal V > 13.0, and trigger OFF Time delay if Terminal V < 12.8.

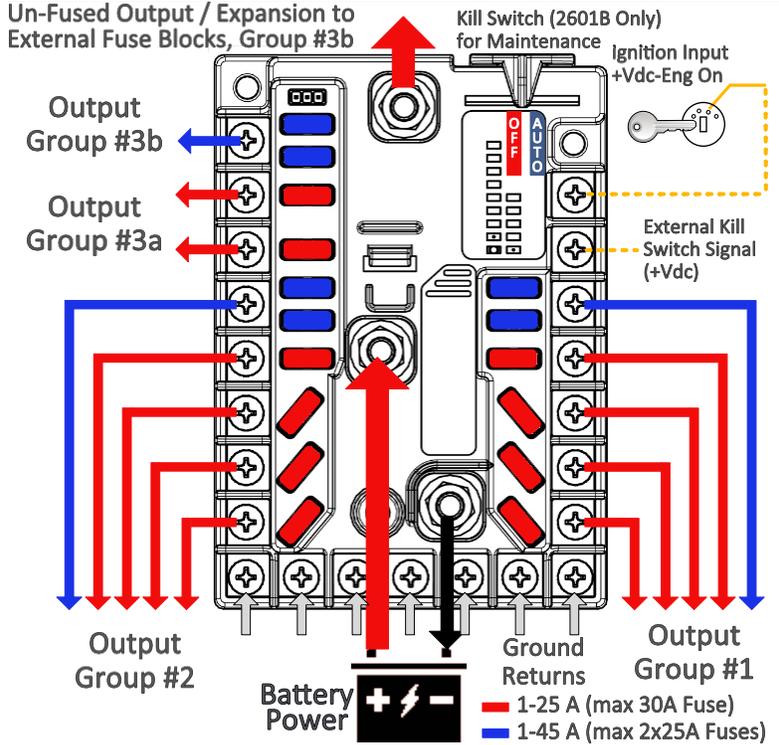
Dimensions



Specifications

Nominal Voltage (Vdc)	12
Input Voltage Range (Vdc)	8.0-18.0
Continuous Current (Total)	175 A
Max Current per Group (#1 & #2)	75 A
Max Current Group #3a	40 A
Max Current Group #3b	75 A
Max Output Current (Single / Parallel)	25 A / 45 A
Operating Current Draw (All Groups On)	30 mA
Operating Current Draw (Hibernation)	1.3 mA
Cable Size to Meet Ratings	1 AWG (45 mm ²)
Maximum Cable Size	1/0 AWG (55 mm ²)
Hardware Material	Stainless Steel Self-Locking
Terminal Stud Torque / Max Torque	60 in-lbs / 80 in-lbs
Time Delay Range (via Dip Switches)	0 Sec - 10 Hr + 24/7

System Diagram



Methods of Operation

- PDM Outputs turn ON immediately (if not already ON) if:**
- 1) Key Ignition Input > 8 Vdc or
 - 2) V_{sense} = On and Battery Voltage > 13.0 Vdc
- PDM Output Groups turn OFF Individually after Respective Dip Switch Time Delay Setting (DS1-DS9) if:**
- 1) Key Ignition Input < 8 Vdc and V_{sense} = Off or
 - 2) Key Ignition Input < 8 Vdc and Input V_{sense} = On and Battery Voltage < 12.8 Vdc
- PDM Under-voltage / Over-voltage Protection:**
- 1) If DS10 or DS11 = ON, will turn OFF ALL PDM-14 Outputs if Aux Input Terminal Voltage < LVD Setting or > 17.5 Vdc for 15 seconds
 - 2) Will NOT turn OFF outputs if Ignition ON Signal Input > 8 Vdc
- PDM Kill Switch Functionality**
- 1) PDM Output Groups ALL turn OFF immediately if External Kill Input > 8 VDC or if slide kill switch is moved to the OFF position.
 - 2) Will turn OFF outputs regardless of Ignition ON Input Signal
- Fuse Blown Indicator, Output ON/OFF, & System Error Indicators**
- 1) Continuous ON LED : Output On
 - 2) Continuous OFF LED: Output Off
 - 3) Slow Double Flash: Output ON but in OFF Time Delay or Over-Temp Time Delay or Over/Under Voltage Time Delay
 - 4) Rapid Double Flash: Local or remote Kill Switch Enabled
 - 5) Slow Single Flash: Output OFF due to Over Voltage/Over Temp
 - 6) Rapid Continuous Flash: (blown / removed fuse on output)

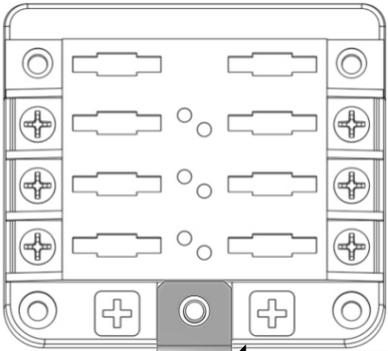
Part Numbers	Resell Pack	Bulk Pack
PDM14 W/Kill Switch, 12 Vdc	2601	2601B
PDM14, 12 Vdc	2602	2602B

* Custom product configurations available, contact us at support@egismobile.com for more information

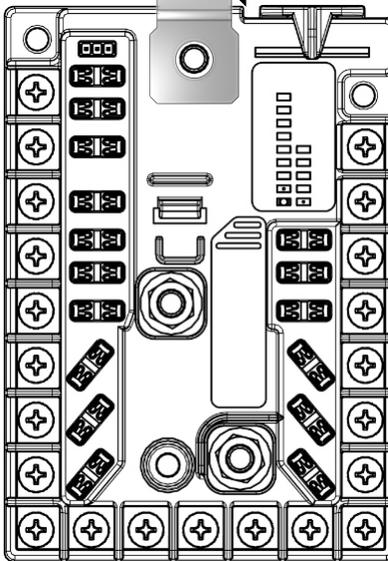


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 360.768.1211
 Bellingham, WA U.S.A

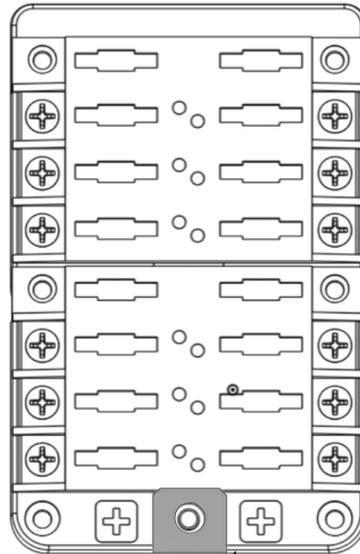




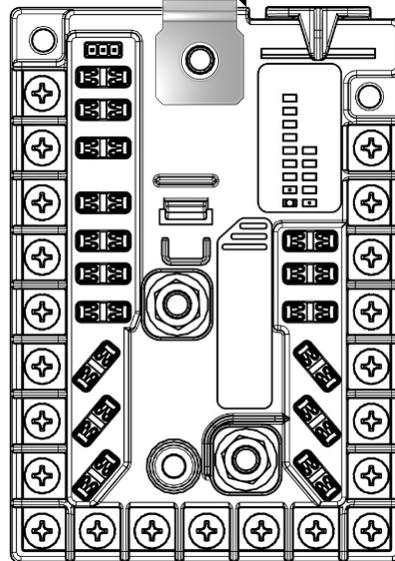
8028B
RT Series 6 ATC/ATO
Circuit Fuse Block,
Ignition Switched
(optional Time Delay)



901466
Busbar, Offset
Switched Power Side



8029B
RT Series 12 ATC/ATO
Circuit Fuse Block,
Ignition Switched
(optional Time Delay)



901466
Busbar, Offset
Switched Power Side

PDM-14
13 MINI Fused
Outputs (Ten @ 1-
25A, Three @ 1-45
Amps) + One
Expansion Output,
175A, 3 Output
Groups

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