

Compact Solution Combines Intelligent Battery Protection, Power Switching, Circuit Protection, Ground Return Buss, and Optional Manual Override Switch.

Reduce Install Space and Total Installed Cost, Four (4) Separate Functions in One Product

Three (3) High-Amp (1-45A) Outputs Allow Protection All Circuits with One Solution

Three Output Groups Independently 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:

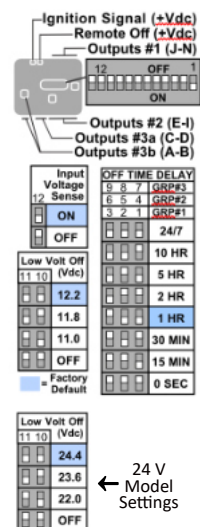
Provide unique ability to isolate all auxiliary loads, including optionally outputs set to 24/7



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**



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

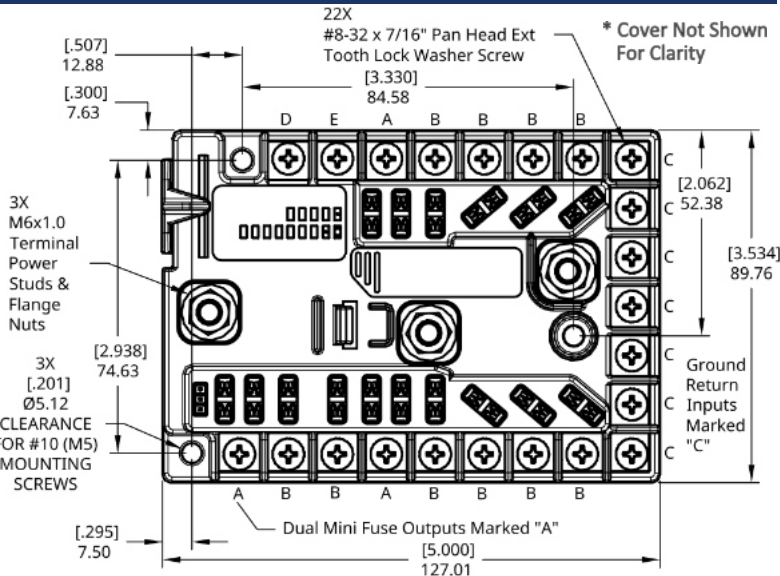
DS4-DS6 sets delay between Off Trigger and Group #2 Outputs OFF. 0 SEC Provides Ignition Switched, 24/7 provides constant power

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 Protection level, If enabled, (15 sec OFF delay if $V_{Bat} < \text{setting}$), 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 $V > 13.0$ (26.0), and trigger OFF Time delay if Terminal $V < 12.8$ (25.6).

Dimensions

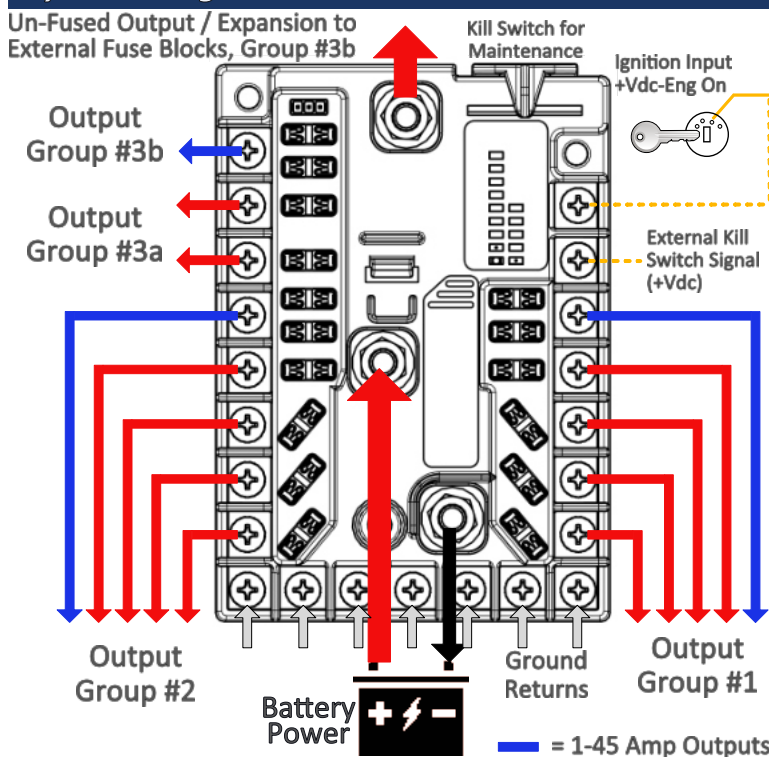


Overall Height Incl. Cover = 1.52" [38.4 mm]

Specifications

Nominal Voltage (Vdc)	12	24
Input Voltage Range (Vdc)	8.0-18.0	16.0-36.0
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 (Active)	30 mA	
Operating Current Draw (Hibernation)	1.5 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 Aux 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 Aux 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 yellow 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) LED indicators provide notice of a blown fuse via flashing LED
- 2) LEDs also indicate output groups ON, OFF, Kill switch enabled, Over-temp shutdown, and Under/Over voltage shutdown

Part Numbers	Resell Pack	Bulk Pack
PDM14 W/Kill Switch, 12 Vdc	2601	2601B
PDM14 W/Kill Switch, 24 Vdc	2601-24	2601-24B
PDM14, 12 Vdc	2602	2602B
PDM14, 24 Vdc	2602-24	2602-24B

* Custom product configurations available including stud sizes, control harness wires, time delays, voltage settings, dip switch functionality, and control input functionality. Low minimum quantities and short lead time for samples or production. Contact us at support@egismobile.com for more information



www.egismobile.com
360.768.1211
Bellingham, WA U.S.A



