

Dual Battery Charge Manager



One Product Handles Two Functions for both auxiliary battery charge management and timed load shedding for add-on circuits.

Prevents add-on equipment from draining batteries / maximizes and extends operational readiness

Protects sensitive on-board electronics via optional under/over voltage shutdown and start event isolation.



EXPERTLY ENGINEERED

















Eliminates Vehicle Downtime due to dead batteries. Lowest off-state current draw (1.3 mA) available.



Simple & Robust Installation: Sealed plug with optional long wire leads. Single device reduces installation time and costs and points of potential failure



Remote and Local Diagnostic
Feedback via low amp output matching
TDR status and on-board LEDs



Bullet-proof Construction: Sealed unit, high temperature materials allow mounting anywhere on vehicle. Integrated thermal overload protection



Meets Stringent OEM Standards for electrical transient self-protection



Adjustable OFF Time Delay & Low Voltage Cut-Off: 0 Seconds to 4 hours, Switch only mode, LVD only mode, 11.0, 11.5, 12.0 Vdc cutoff levels.



Start Isolation / Kill Switch control input options for service technicians, emergency OFF, or protecting sensitive addon equipment.



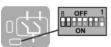
Flexible Control Options via Ignition Key, alternator voltage sense, or both.

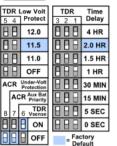


4 Year Industry Leading Warranty

System Diagram / Dip Switches

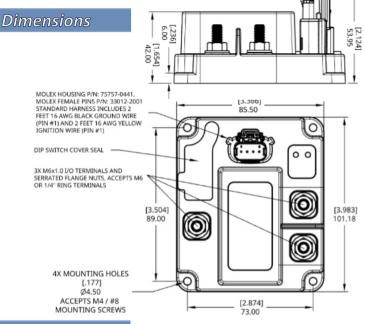
- * DISCONNECT BATTERY FROM POWER DISTRIBUTION SYSTEM BEFORE
 INSTALLING PRODUCT TO PREVENT ELECTRICAL SHOCK OR PRODUCT DAMAGE
- ** USE OF IGNITION SIGNAL STRONGLY RECOMMENDED FOR ALL FIRST RESPONDER INSTALLATIONS TO ENSURE RAPID ON & WITHSTAND ADVERSE ELECTRICAL SYSTEM CONDITIONS





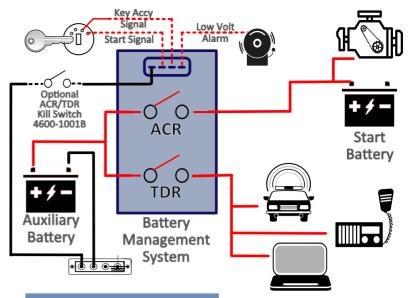
- DS1-DS3 sets delay between Off Trigger and Relay OFF. 0 & 5 SEC is for install testing or pure relay functionality with short or no time delay
- DS4-DS5 defines TDR low voltage protection level/ If DS4ON or DS5=ON, (15 sec OFF delay if V_Aux <setting, overrides Time Delay or Key On Signal)
- DS6 enables Aux Battery Voltage Sense to trigger Relay ON/OFF events. DS6=ON is Enabled
- DS7 enables Aux Battery Priority. if DS7=ON, ACR disconnect voltage reduced from 12.7 to 12.25 V, sharing start battery energy to Aux Battery loads

 DS8 enables Under-voltage ACR Protection. If DS8=ON, ACR will NOT close if Aux or Start battery Voltage is less than 9.6 Vdc



Specifications

Nominal Voltage	12 Vdc
Input Voltage Range	8-18 Vdc
Continuous Current (Per Circuit / Total)	80 A / 160 A
Max 5 Min Current (Per Circuit / Total)	125 A
Operating Current (Per Circuit)	170 mA
Operating Current, Relays Open	1.4 mA
Cable Size to Meet Ratings	2 AWG
Maximum Cable Size	2/0 AWG
Hardware Material	Stainless Steel
Terminal Stud Torque	80 in-lbs
Time Delay Range	0 sec - 4 hrs
TDR Close / Open Voltage	13.3 / 13.0
ACR Close / Open Time Delay	30 s / 30 s
ACR Close / Open Voltage	13.1 / 12.8
Low Voltage Setting Options (15 sec)	11.0/11.5/12.0
Over Voltage Protection (1 sec)	16.5 Vdc



Methods of Operation

TDR Output turns ON immediately if:

- 1) Key Ignition Input > 8 Vdc or
- 2) TDR V_sense = On (DS6) and Aux Battery Voltage > 13.0 Vdc

TDR Output turns OFF after Time Delay setting if:

- 1) Key Ignition Input < 8 Vdc and V_sense = Off or
- 2) Key Ignition Input < 8 Vdc <u>and Input V_sense = On and Aux</u> Battery Voltage < 13.0 Vdc

TDR UV / OV Open (Under-voltage / Over-voltage Protection):

- 1) If DS4 or DS5 = ON, will turn OFF TDR Output if Aux Battery Voltage < LVD Setting or > 17.0 Vdc for 15 seconds
- 2) Will turn OFF TDR output regardless of Key ON Accy Signal

ACR Relay Connects Batteries after 30 second delay if:

- 1) DS8=OFF and Aux Battery OR Start Battery Voltage > 13.3 Vdc
- 1) DS8=ON, Aux Battery <u>OR</u> Start Battery Voltage > 13.3 Vdc, <u>AND</u> both Aux and Start Batteries > 9.6 Vdc

ACR Relay Disconnects Batteries:

- 1) If DS7=OFF: 30 sec after Aux & Start Battery Voltage < 13.0 Vdc
- 2) If DS7=ON: 30 sec after Aux & Start Battery Voltage < 12.25 Vdc
- 3) Immediately if Engine Start Signal Input (Pin #2) > 8 Vdc

Part Numbers

DBCM w/2' Gnd/Start Harness, Bulk Pack 7614B

DBCM w/2' Gnd,Start/Accy/Alarm Harness, Retail 7614-3001

DBCM w/2' Gnd,Start/Accy/Alarm Harness, Bulk 7614-3001B

* Custom product configurations available including stud sizes, control harness wires, time delays, voltage settings, dip switch functionality, and control input functionality.









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