





Triple Battery Advanced Automatic Charging Relay

Two Independent ACRs in One Device reduce installation space and time. Significantly lowers off-state current draw

Adjustable Auxiliary Battery Priority provides variable voltage points for each relay to share engine battery energy without sacrificing ability to start

Start/Engine Isolation and Start Assist functions are optional for each relay; allowing protection of sensitive electronics from engine starting events or the option to boost cranking effectiveness.











Eliminates Dead Start Batteries by sharing charge sources with all batteries and isolating batteries when no charge sources are present



Simple & Robust Installation: Integrated sealed plug eliminates corrosion, included DT04 harness. Single device reduces installation time, space, cost and points of potential failure



Additional Low Amp Output can be used to report device status remotely.



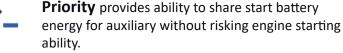
Bullet-proof Construction: Sealed unit, high temperature materials allow mounting anywhere. Integrated thermal overload shutdown protection



Ultra Low Off-State Current: Compare two typical ACRs (20 mA) vs Dual ACR @ 1.3 mA



Adjustable Off-Voltage for Auxiliary Battery





Start/Engine Isolation input option for ensuring sensitive electronics do not experience voltage sags and spikes from the cranking event.



Start Assist input option to ensure maximum cranking amps available when necessary.



4 Year Industry Leading Warranty

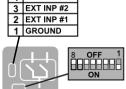








* DISCONNECT BATTERY FROM POWER DISTRIBUTION SYSTEM BEFORE INSTALLING PRODUCT TO PREVENT ELECTRICAL SHOCK OR PRODUCT DAMAGE



4 LED OUT +

	12V Model	24V Model
ACR #1 Dip	OFF 2 1 Voltage	OFF 2 1 Voltage
Switch Options	12.75	25.5
Function 4 3 Lock	12.5	25
Assist 🗆 🗆 ON	12.35	24.7
Isolation OFF	12.2	□ □ 24.4
ACR #2 Dip	OFF	OFF

Switch Options		ь	5	voitage	ь	5	voitage		
	Ext Input	T_	UV	В	В	12.75	\blacksquare	В	25.5
ŀ	Function 8	**	ON	В	В	12.5	В	В	25
	Assist L Start/Eng	耑	OFF	B	В	12.35	B	В	24.7
L	Isolation	act		B	В	12.2	\Box	Н	24.4
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4.7 4.4

DS1-DS2: ACR #1 OFF Voltage Trigger. Lower settings allow partial battery energy sharing yet ensuring minimum capacity for starting. DS3: Under-voltage Lock-Out Enable. If

DS3=ON, ACR #1 will NOT close if either

terminal < 9.6 Vdc. **DS4:** Determines Pin #2 Response Function. DS4=ON, triggers CLOSE if Pin #2 > 8.0 Vdc. DS4=OFF triggers OPEN if Pin #2 > 8.0 Vdc.

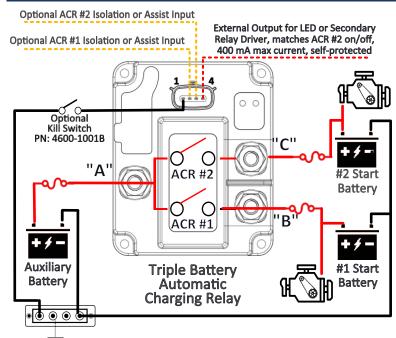
DS5-DS6: ACR #2 OFF Voltage Trigger. Lower settings allow partial battery energy sharing yet ensuring minimum

capacity for starting. **DS7:** Under-voltage Lock-Out Enable. If DS7=ON, ACR #2 will NOT close if either terminal < 9.6 (19.2) Vdc. **DS8:** Determines Pin #3 Response

Function. DS8=ON triggers CLOSE if Pin #3 > 8.0 Vdc. DS8=OFF triggers OPEN if Pin #3 > 8.0 Vdc.

() = 24V Setting

System Diagram

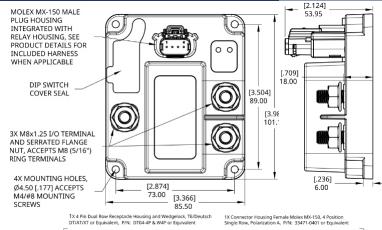


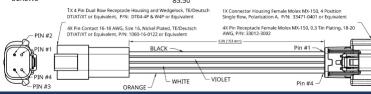
Specifications		
Nominal Voltage (Vdc)	12	24
Input Voltage Range (Vdc)	8.0-18.0	16.0-36.0
Continuous Current (Amps)	80A / 160A	
Max 5 Min Current (Per Circuit/Total)	120 A / 240A	
Operating Current (Per Circuit)	170 mA	85 mA
Operating Current, Relays Open	1.3 mA	1.3 mA
Over Voltage Protection (Vdc) (5 sec)	17.0	35.0
Under-Voltage Lockout (Vdc) (If ON)	9.6	19.2
Min Source Current (Ignition/Kill Inputs)	10 micro-Amps	
Max 5 Min Current (Amps)	240	
Operating Current (mA) Standby / Open	1.3	
ACR #1/#2 Close Delay	120 s (Long), 30 s (Short)	
ACR #1/#2 Close Voltage (Vdc)	12.8 - 13.35	25.6 - 26.7
ACR #1/#2 Open Delay	30 s (Long),	10 s (Short)
ACR #1/#2 Open Voltage (Vdc)	12.2 - 12.75	24.4 - 25.5
Hardware Material	Stainless Stee	l Self-Locking
Terminal Stud Torque	80 ir	n-lbs
Aux Output Max Drive Current	400 m-Amps	
Maximum Cable Size	2/0 /	AWG
Cable Size to Meet Ratings	6 AWG	/2 AWG

Part Numbers	Resell Pack	Bulk Pack
12V 2x80A Triple Battery ACR	7612	7612B
24V 2x80A Triple Battery ACR	7612-24	7612-24B
Kill Switch Kit for (-) Control	4600-1001	4600-1001B

* 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

Dimensions





Methods of Operation

ACRs #1 or #2 turn ON after 30 seconds if:

- 1) If UV Lock = OFF: V-sense A or V-sense B/C > 13.1 Vdc, or
- 2) If UV Lock = ON: V-sense A and V-sense B/C > 9.6 Vdc and Vsense A or V-sense B/C > 13.1 Vdc

ACRs #1 or #2 turn OFF after 30 seconds if:

- 1) V-sense B or C < "Off Voltage" per DS1-DS2 or DS3-DS4, or Start / Engine Isolation Opens ACR #1 or ACR #2 Immediately if:
 - 1) If DS4 = OFF and Pin #2 > 8.0 Vdc (for ACR #1), or
 - 2) If DS8 = OFF and Pin #3 > 8.0 Vdc, (for ACR #2)
- 3) Isolation can be connected to engine cranking signal or running signal depending on desired duration of isolation

Start Assist Closes ACR #1 or ACR #2 Immediately if:

- 1) If DS4 = ON and Pin #2 > 8.0 Vdc (for ACR #1), or
- 2) If DS8 = ON and Pin #3 > 8.0 Vdc, (for ACR #2)
- 3) Start Assist closes ACR for 30 sec before returning ACR to auto operation, connect to Key Accy signal to ensure close before crank



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