Miniature Battery Isolators

Transpo Electronics is introducing the next generation of Battery Isolators designed to fit the restricted engine spaces while supplying the required power.

Features:

- ✓ Dual battery sensing
- ✓ Fully automatic
- ✓ Surge protection
- ✓ Manual Model (rocker switch on the housing)
- ✓ Easy 3 wire connection at the battery. No need to bypass existing alternator wiring
- ✓ LED indication
- ✓ Dimensions (mm): 67.5 (L), 67.5 (W), 53.5 (H)
- ✓ Rocker switch to convert from standard (0) to manual (1) mode

Standard operation - The 2 battery isolators allow two batteries to be charged at the same time. When the engine is started and the start battery reaches 13.7/27.4V, the isolator engages, allowing two battery banks (start and house) to be charged simultaneously. When the voltage drops below 12.8/25.6V (e.g. the engine is stopped), the isolator disengages, separating both batteries. This system eliminates the possibility of draining the start battery and protects sensitive electronic equipment powered from the house battery from harmful engine start up spikes.

Manual operation - There is a rocker switch (self-locking switch) on the -2 model that can immediately (no delay) engage or disengage battery isolator with rocker switch when battery voltage is below 13.7/27.4 Volts

Specifications:

Continuous Rating: 140 Amps DC12V; 100 Amps DC24V
Intermittent Rating: 170 Amps DC12V; 140 Amps DC24V
Ignition Protection: UL1107/UL1500

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Additional specifications:

	Rating Voltage	Cut in	Cut off	Continuous Current
	DC12V	13.7V±0.1	12.8V+0.15	140A
	DC12V	13.7V±0.1	12.8V+0.15	140A
	DC24V	27.4V±0.2	25.6V+0.3	100A

Be sure to select the correct size cable using the following voltage drop chart:

Total Cable Length (m)	Total Cable Length (ft)	Amps	Voltage Drop (%)	mm	AWG
1	3	50	2.30%	4	11
1	3	100	3.00%	6	10
2	6	50	3.00%	6	10
2	6	100	3.50%	10	7
3	9	50	2.70%	10	7
3	9	100	3.40%	16	5
4	12	50	3.60%	10	7
4	12	100	2.60%	25	3
5	15	50	2.80%	16	5
5	15	100	3.30%	25	3
6	18	50	3.40%	16	5
6	18	100	3.90%	25	3
7	21	50	3.90%	16	5
7	21	100	4.60%	25	3
8	24	50	2.60%	25	3
8	24	100	3.30%	35	1