



## M-Power Equalisers

- The most reliable method of obtaining 12V power from a 24V system
- Maintains balance of 24V battery banks and extends battery life
- More efficient and reliable than DC/DC converters
- Allows the conversion of 12V vehicles to 24V and vice versa
- Available from 10-100A
- Easy to install

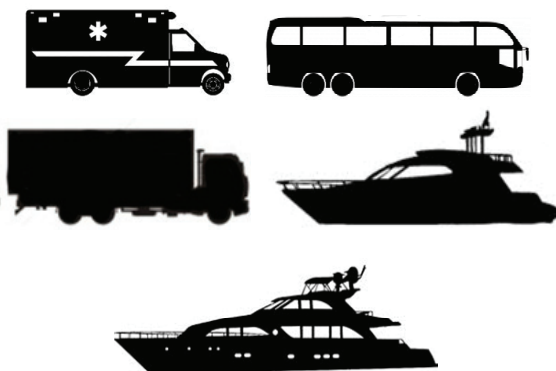
Battery Equalisers allow you to 'tap' 12V power from a 24V battery bank. Normally 'tapping' power is not recommended because it causes imbalance between the batteries and premature damage.

Equalisers work by maintaining each battery in the 24V battery bank at precisely the same state of charge. This allows you to draw significant amounts of 12V power. Equalisers have the additional benefit of: a) Extending 24V battery life by maintaining battery balance b) More efficient and reliable than most (or multiple) DC/DC converters c) Allows you to use high surge loads without a very large DC/DC converter (short-term power requirement that is greater than the Equaliser will simply be re-balanced once current consumption drops below the Equaliser's maximum output).

Merlin M-Power Equalisers are currently in use across fire, bus and coach fleets, military vehicles and marine platforms. Equalisers should be sized to be around 10-20% greater than the normal continuous 12V current required.

Part #	04-8510	04-8512	04-8514	04-8516	04-8518
Output Rating (12V)	10A	20A	60A	80A	100A
Max Input Current (24V)	6A	12A	32A	43A	53A
Operating Input Voltage Range	20-35V DC	20-35V DC	20-32V DC	18-32V DC	18-32V DC
Output Voltage	(Input Voltage / 2) +/-2%				
Standby Current	17mA	17mA	17mA	17mA	17mA
Efficiency	>91%	>91%	>96%	>91%	>91%
Dimensions (mm)	108x216x82mm	239x216x82mm	249x216x82mm	249x216x82mm	249x216x82mm
Dimensions (Inch)	4.25x8.5x3.2"	9.4x8.5x3.2"	9.8x8.5x3.2"	9.8x8.5x3.2"	9.8x8.5x3.2"
Weight Kg	1.04Kg (2.3 lbs)	2.26Kg (5.0 lbs)	2.72Kg (6.0 lbs)	2.85Kg (6.3 lbs)	2.85Kg (6.3 lbs)
Standards	CE, UL, RoHS				

### Recommended Applications:



### Installation Example

