



CYRIX microprocessor controlled battery combiner

No voltage loss

The Cyrix battery combiner is a microprocessor controlled heavy duty relay that automatically connects batteries in parallel when one of them has reached a preset voltage (indicating that the battery is being charged), and disconnects when the voltage decreases below float level (indicating that one or more batteries are being discharged).

Cyrix battery separators are an excellent replacement for diode isolators. The main feature is that there is virtually no voltage no voltage loss so that the output voltage of alternators or battery chargers does not need to be increased.

Prioritising the starter battery

In a typical setup the alternator is directly connected to the starter battery. The accessory battery, and possibly also a bow thruster and other batteries are each connected to the starter battery by Cyrix battery combiners.

When a Cyrix senses that the starter battery has reached its connect voltage it will engage, to allow for parallel charging of the other batteries.

Bidirectional voltage sensing

The Cyrix senses the voltage of both connected batteries. It will therefore also engage if for example the accessory battery is being charged by a battery charger.

Parallel connection in case of emergency

The Cyrix can also be engaged with a switch to connect batteries in parallel manually.

This is especially useful in case of emergency when the starter battery is discharged or damaged.

Cyrix battery separator	X80/12	X80/24	X160/12	X160/24	X400/12	X400/24
Continuous current (A)	80	80	160	160	400	400
Connect voltage (V)	13,2	26,4	13,2	26,4	13,2	26,4
Disconnect voltage (V)	12,8	25,6	12,8	25,6	12,8	25,6
Current consumption when open	<5 mA	<5 mA	<5 mA	<5 mA	<5 mA	<5 mA
Connection for remote on-off	√	√	√	√	√	√
Micro switch for remote status indication					√	√
Weight kg (lbs)	0,11 (0.24)	0,11 (0.24)	0,3 (0.7)	0,3 (0.7)	0,9 (2.0)	0,9 (2.0)
Dimensions h x w x d in mm (h x w x d in inches)	46 x 46 x 80 (1.8 x 1.8 x 3.2)	46 x 46 x 80 (1.8 x 1.8 x 3.2)	46 x 93 x 96 (1.8 x 3.7 x 3.8)	46 x 93 x 96 (1.8 x 3.7 x 3.8)	78 x 102 x 110 (3.1 x 4.0 x 4.4)	78 x 102 x 110 (3.1 x 4.0 x 4.4)

