

## DVSR: Dual Battery Charging Made Easy

The Digital Voltage Sensing Relay (DVSR) provides a highly efficient but inexpensive solution for automatic charging of a second battery bank. It ensures correct charging while removing the risk of flat start batteries. When the voltage on the first bank rises sufficiently, the DVSR engages allowing the second battery bank to charge. When charging stops and voltage falls, the DVSR automatically isolates the battery banks, ensuring that engine start batteries are kept fully charged. Digital circuitry provides superior reliability and extremely low power consumption.

- Safely charge two or more independent battery banks from one charge source (alternator, battery charger...)
- Charges engine starting batteries before combining auxiliary bank for charging
- Protects start batteries from becoming flattened by domestic loads
- Isolates electronics from harmful electrical surges from starter motors
- Simple to install 3-wire connection, leaves alternator wiring intact
- No volt drop vs. diode isolators
- Ignition protected
- Surface or panel mountable

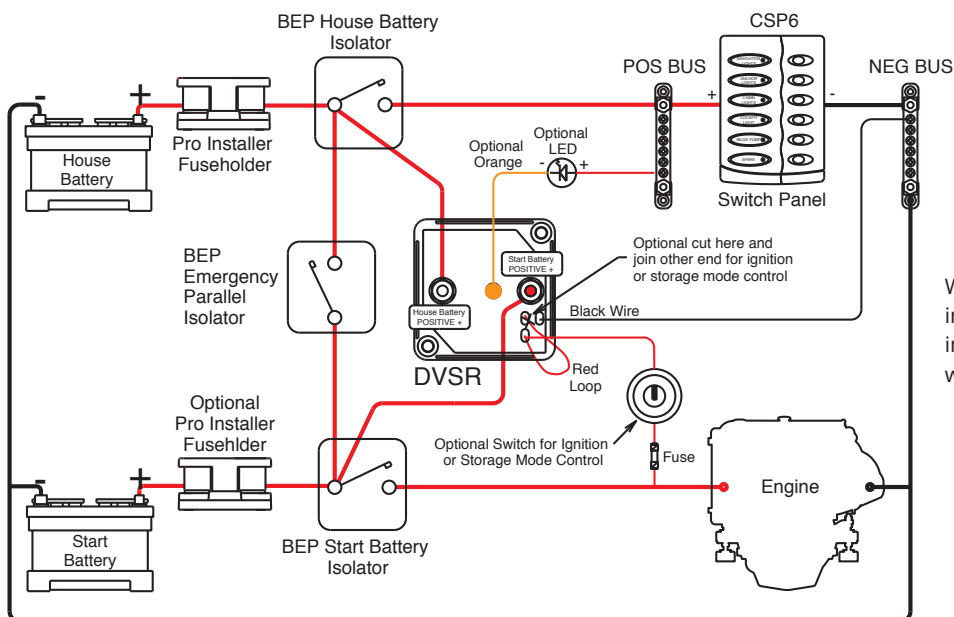
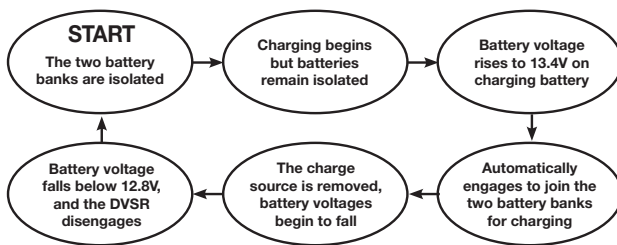
### Digital Technology Provides:

- Multi voltage, auto selects between 12V and 24V DC operation
- Digital circuits provide very low power consumption (<2mA in standby, up to 8x more efficient than analog models) and enhanced performance
- Remote sensing circuitry allows optional connection from ignition switch, provides same functionality as single sense VSR and zero power consumption when engine is off
- Zero stand by current draw when remote sensing circuit utilized with storage mode switch fitted (switch in open position)
- Remote status LED output option



Part #	OEM #	LxWxH in	LxWxH mm	Voltage	Rating Continuous	Rating Intermittent	Engages	Disengages	Cable to meet rating
710-140A	710-140A-B	2.75" x 2.75" x 2"	69 x 69 x 50 mm	12/24V	125A	140A	13.4/26.8V DC	12.8/25.6V DC	8AWG (8mm <sup>2</sup> )

### DVSR Operation (shown for 12V system)



Wiring diagrams indicative of installation only, for full instructions see the BEP website: [bepmarine.com](http://bepmarine.com)