

# New Product Release: 720-MDVSO

19th December 2012

We are pleased to announce the release of the new 720 Motorised, Voltage Sensitive, Optical, battery master switch. The 720-MDVSO is now available for shipping, and replaces the previous analogue models (720-MDVS, and 720-MDVS-24V).

This Voltage Sensitive Switch (VSS) automatically senses connected battery bank voltages and provides optimal, efficient charging of the second bank. The VSS allows for the independent battery banks to be combined or isolated based on the presence of a charging source (such as an engine alternator or battery charger), while also offering remotely activated, high current, emergency parallel connection.

Designed and constructed for longevity in the marine environment with tinned copper conductors, stainless steel nuts, and high temperature, fiber reinforced plastics. The units are ignition protected, provide On/Off switching operation, and may be recessed or surface mounted.

The 720-MDVSO features digital circuitry and optical sensor positioning that automatically senses and adjusts for either 12V or 24V input, is extremely accurate, and offers low power consumption.

**Digital enhancements:**

- Up to 67% reduction in stand-by current draw
- Multi voltage - auto selects between 12V and 24V DC operation (both battery banks must be either 12 volt, or both 24 volt)
- Only one SKU required, instead of separate 12/24 volt versions
- Increased accuracy of voltage measurement through digital circuitry
- Lowered cut in voltage from 13.7V to 13.3V (26.6V for 24V) to suit low output alternators, and high temperature environments
- Uses the same simple connections with Wago plug provided for easy installation



Feature or Specification	New 720-MDVSO	720-MDVS, 720-MDVS-24V	New MDVSO Comment
Automatic Dual Voltage 12/24 Volt	✓	No	Handles either 12 or 24 volt, with no setup required
Dual Sensing Both Battery Banks	✓	✓	Parallels battery banks if either bank is sufficiently charged
Digital Circuitry, Optical Position Sense	✓	No	Improved accuracy and efficiency
Standby Power Consumption (VSS "Off")	<5 mA (<5.5mA)	15 mA	Approximately 70% reduction in power consumption @12V
Continuous Power Rating	500A	500A	
Intermittent Rating	700A	700A	
Cranking Rating	2500A	2500A	
LED Status Light On Unit	✓	✓	
Optional Remote LED Status Light	✓	✓	
Cut-In voltage (batteries are paralleled)	13.3 V (26.6 V)	13.7V (27.4V)	720-MDVSO cuts in after ~5 seconds
Cut-Out voltage (batteries are isolated)	12.7 V (25.4 V)	12.2-12.8 V (24.4-25.6V)	720-MDVSO cuts out after ~20 second delay
Same 3 Wire + 2 Stud Connections	✓	✓	Ground, remote parallel switch, remote status LED
10 Minute Remote Emergency Parallel	✓	✓	(If remote parallel switch is fitted)
Ignition Protected	✓	✓	
Full Manual Over-Ride (On & Off)	✓	✓	