SLD Series

Switchmode Lighting Dimmers

DC ELECTRONIC LIGHTING DIMMERS

interVOLT has released an all new range of electronic dimmers for the boat, motorhome, caravan and coach markets. The new dimmers are enclosed in interVOLT's new mini series housing which features high efficiency heatsinking for maximum cooling. The innovative housing is not only technically superior but compact, functional and stylish. The mini series dimmers are suitable for filament lamps including incandescent, halogen and xenon and are available in two high power ratings to cover most applications. Please see overleaf for our list of features and specifications.

The new purpose built extruded housing with moulded end caps is as functional as it is attractive. The new design features effective heat dissipation, easy mounting, compact size and no sharp edges!

purpose designed

Visual indication of the system status provides important information for both users and installers. The tri-colour LED will display an array of symptoms to assist in troubleshooting on-board problems.

self-diagnostics

Only high quality, marine grade components are used in construction. All hardware used in assembly is non-ferrous and the terminals are all plated brass. Circuit boards are tropicalised for ultimate protection.

corrosion resistant

Connection is made safe and sure by using heavy-duty custom designed terminals. Power terminals are protected by insulated barriers to prevent shorting. Auxiliary terminals are tunnel style for extra protection.

heavy duty terminals

A selectable master/slave switch enables multiple units to be connected in parallel for higher power. Being dual-purpose means the dimmers are truly universal – all at the flick of a switch!

multiple connection

The unique extruded cover closes to protect the terminals and electronics from external objects including fingers! This prevents inadvertent short circuiting, ensuring safety and providing peace-of-mind.

easy access cover

CE N1816

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Diagnostics: Unique to interVOLT, is the self diagnosing electronics. This design provides valuable feedback to installers and operators alike. An LED displays the system status and will indicate standby power, lamp load connected (lights on), over temperature and output short circuit.

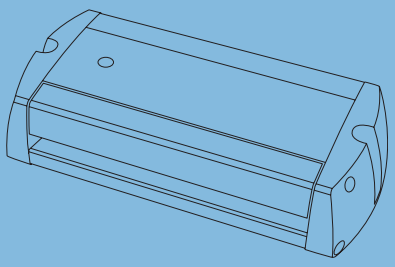
Protection: interVOLT dimmers feature a range of devices designed to protect the electronics from various connection and application problems. The dimmers are protected against short circuit, excessive temperature and an internal fuse protects the electronics in the event of component failure.

Memory: All interVOLT dimmers have an integrated device which stores data for various functions including the memory feature. The memory function records the current 'brightness' setting when the lights are switched off, so that same 'brightness' is resumed when turned on again.

Soft Starting: A special feature of interVOLT dimmers is the soft start function. High inrush current diminishes the life of common filament lamps. This feature controls the start up power by limiting the in-rush current, considerably extending the bulb life.

Safety: An innovative feature of our dimmers is the temperature failsafe mode. Most electronic dimmers either fail or shutdown on temperature overload. interVOLT dimmers are programmed to dim the lighting circuit to 50% of full load if the electronics should overheat.

Parallel Connection: Another innovation is the master/slave function. Each interVOLT dimmer is in itself a dual purpose device. Rather than purchasing individual master and slave units the interVOLT dimmers can be made into either by simply using the master/slave slide switch.



SLD2040DC

SLD2550DC

	SLD2040DC	SLD2550DC
Continuous Load Rating @ 30°C (86°F)	200 Watts @ 13.0VDC or 400 Watts @ 26.0VDC	250 Watts @ 13.0VDC or 500 Watts @ 26.0VDC
Length Overall	120mm (4.725")	170mm (6.690")
Width Overall	80mm (3.150")	80mm (3.150")
Height Overall	40mm (1.575")	40mm (1.575")
Weight	250 grams (8.80 oz)	350 grams (12.35 oz)
Input Voltage Range	9–33VDC	
Dimming Voltage Range	10–98% of input voltage	
Standby Current Draw	<10mA	
Operator	Single pole momentary push switch (normally open). Multiple switches can be used.	
Operating Temperature	-25°C to + 45°C	
Operating Humidity	Ideally less than 90%	
Enclosure Material	Marine grade aluminium dye anodised	
End Cap Material	Injection moulded electrical grade ABS/PC plastic	
Terminal Cover Material	Extruded temperature resistant ABS	
Diagnostic Indicator	Tri-colour LED – monitoring standby mode, load on, short circuit and temperature	
Transient Voltage Protection	Filtering – Purpose designed circuit	
Short Circuit Protection	Current sensing circuit – Shutdown (automatic reset)	
Over Temperature Protection	Temperature sensing circuit – Foldback to 50% of rated load (automatic reset)	
Output Circuit Configuration	Common negative wiring (switching positive) for ease of installation	
Termination	Power – 6-32 UNC H/D screw terminal. Auxiliary – Euro terminal block	
Master/Slave Selection	Use selectable slide switch. Located next to auxiliary terminal	
Conformity	Australian AS/NZS CISPR 11. European EN55011. International CISPR11 and IEC61204-3.	
Certification	EMC – Australian C Tick mark and European CE mark	

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