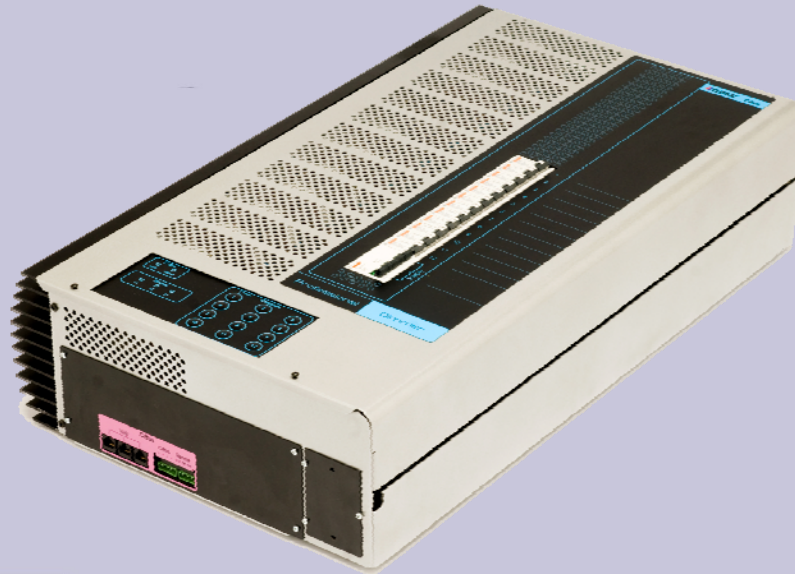


L5112D Range 12 Channel Professional Dimmers

C-Bus®

CLIPSAL®
LIVING ELECTRICAL



The C-Bus L5112D range of Professional dimmers are high powered 12 channel dimmers designed for commercial applications such as hotels, restaurants and office buildings.

The unit is a C-Bus controlled, high power, multi phase control dimmer, which is compatible with a wide range of load types, including neon. Leading and Trailing edge models are available.

Dimming is achieved through phase control techniques creating a highly efficient range of dimmers.

Channel de-rating for use with electronic transformer loads is not required. Each channel is capable of supporting full load current.

The L5112D range of Professional dimmers provide on-board MCB protection, thermal overload protection and also accommodate the RCD requirements as per AS/NZS3000:2007.

The dimmer range contains modular output channel cards of various ratings with both leading and trailing edge technology, providing ability to customise the dimmer to site needs.

A maintained active output is provided on each channel for emergency lighting.

Each channel card has a bypass switch which permits direct local override of the lighting circuit.

In the event of an over-temperature condition, for example, one caused by excessive load current being drawn, the dimmer channel reduces the output power as long as the condition exists.

The Professional dimmer is designed and tested for a wide range of international markets with comprehensive EMC and electrical safety testing and is fully ROHS compliant.

- Soft start load turn-on protects lamp filaments.
- Voltage compensation to minimise load brightness variation if the AC supply voltage drifts.
- Mounting brackets included for ease of installation.
- Suitable for single or three phase track lighting applications with optional 3 phase MCB's and RCD's

- Filtering to reduce supply voltage signalling effects.
- After mains fail, dimmer returns to previous or preset values.
- Linear output load power following input control.
- C-Bus network burden and network clock generator.
- Emergency lighting output for each channel.
- On-board MCB and/or RCD protection.
- Fan free operation, reduces maintenance requirements.
- Manual dimmer bypass switch on all channels.
- Local C-Bus override switches on front panel.
- Generous mains supply terminals and load terminals.
- Channel Status indicators on front control panel.
- Complies with Australian (AS/NZS CISPR 15:2002) and International standards for light dimmers as below.

Accreditations	C Tick	CE
EMC	AS/NZS CISPR14-1 CISPR15	EMC Directive 2004/108/EC EN 60669-2-1 Clause 26.1, 26.2 EN 55014-1, 55015, 61000-3-2, 61000-3-3, 61000-3-5, 61000-3-11
Low Voltage		EN 60439-1, 60669-2-1
Electrical Safety	AS/NZS 3439-1 IEC 60669-2-1	IEC 60439-1, 60669-2-1
ROHS		2002/95/EC

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CLIPSAL
C-Bus
Control and Management System

L5112D Range 12 Channel Professional Dimmers

Part Numbers

12 Channel	Leading Edge	Leading Edge + RCD*
20A	L5112D20LP	L5112D20LPR12
16A	L5112D16LP	L5112D16LPR12
10A	L5112D10LP	L5112D10LPR6
5A	L5112D5LP	L5112D5LPR6
3A	L5112D3LP	
12 Channel	Trailing Edge	Trailing Edge + RCD*
10A	L5112D10TP	L5112D10TPR6
5A	L5112D5TP	L5112D5TPR6
3A	L5112D3TP	

*20A and 16A RCD models include 12 x 2 pole RCBO's (Combination RCD and MCB)

*10A and 5A RCD models include 6 x 2 pole RCCB's (RCD Only)

Ratings

Model Number	Max load current/phase	Max load RMS current/channel
L5112D20LP	60A	20A
L5112D16LP	60A	16A
L5112D10LP	40A	10A
L5112D5LP	20A	5A
L5112D3LP	36A or 18A	3A
L5112D10TP	40A	10A
L5112D5TP	20A	5A
L5112D3TP	36A or 18A	3A

Electrical Specification

Parameter	Description	
Load terminal Standby leakage current	< 10 mA Leading Edge	< 1 mA Trailing Edge
AC supply voltage	240/415V AC	
AC supply frequency	47-53 Hz	
Number of Input phases	3 Phase 1 or 2 Phase (3 Amp Model)	
Minimum load/channel	20 W for incandescent	
Dimming Technology	Trailing Edge 3-20A Dual Mosfet Leading Edge 3-5A Triac Leading Edge 10-20A Dual SCR	
Soft-start ramp time	0.5 sec	
Load current rise time	200µ sec	
Power control range	1.5 % to 95 %	
Standby AC supply current	90mA base current 75mA each LE Channel 15mA each TE Channel	
Short circuit withstand strength	6kA*	
Rated insulation voltage	500 V	
Dielectric test voltage	2500 V	

*Note for 3A model installer must connect dimmer to mains with protection rated at 20A per phase 6kA short circuit withstand strength

Dimensions

Model	Weight Kg	Dimensions mm H x W x D
L5112D20LP	40	713x455x164
L5112D16LP	40	713x455x164
L5112D10LP	31	713x412x164
L5112D5LP	26	713x405x115
L5112D3LP	23	602x405x115
L5112D10TP	25	713x455x164
L5112D5TP	24	713x412x164
L5112D3TP	23	713x405x115

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