

# LD SERIES

## LD1.0/2.0/3.0

Simple loop driver  
Class D Amplifier



The new LD1.0, LD 2.0 and LD 3.0 from Opus Technologies range, are a next-generation of one channel amplifiers. The amplifiers offer all the functionalities (AGC, MLC, compressor, etc) to ensure rooms installation up to 250m<sup>2</sup> (LD1.0), 450m<sup>2</sup> (LD2.0) or 1000m<sup>2</sup> (LD3.0).

The amplifiers incorporate a fault synthesis controlling continuously the integrity of both loop and amplifier. The information is displayed on the driver's front panel and can be deported thanks to a dry contact. Thanks to our high-efficiency Class D technology, our amplifiers consume less and offers a natural cooling.

The amplifiers output voltage is the highest available on the market for this type of amplifier (48 Vpk), ensuring outstanding sound quality without clipping or distortion. The variable frequency of switching class D amplifiers developed by Opus Technologies allows unequaled performances and exceptional sound signal in the most compact device on the market.

The LD.0 can also be used in a low diaphonic phased loop system or an ultra high coverage system with a built-in 90 ° or 0 ° phase shift module (2 amplifiers). Solution used for the equipment of large or adjacent rooms (hairpin systems).

Amplifiers have been developed with strict and rigorous specifications that allow us to offer a 5 year warranty and meet the IEC 60118-4. LD1.0, LD2.0, LD3.0 amplifiers follows the strict specifications required for UL compliance.

- Class D amplifier
- The most compact on the market
- Efficiency up to 92%
- Fanless convection
- High output voltage up to 48Vpk
- Voice alarm (100V) Input priority
- Automatic gain control
- Wall mounting available
- Warranty 5 years
- Correction settings due to metal losses
- Monitoring and detection of clipping, loop and temperature
- IEC 62368/UL compliant



## Coverage

Cover meets the IEC 60118-4 standard

Loop	No metal loss			Moderate metal loss			High metal loss		
	Perimeter loop	Single array in 8	Low overspill*	Perimeter loop	Single array in 8	Low overspill*	Perimeter loop	Single array	Low overspill*
<b>LD1.0</b>	250m <sup>2</sup> (10x25m)	450m <sup>2</sup> (15x30m)	450m <sup>2</sup> (15x30m)	130m <sup>2</sup> (10x13m)	180m <sup>2</sup> (10x18m)	450m <sup>2</sup> (15x30m)	Use Multi Loop Systems LDx.2 and/or Contact us		
<b>LD2.0</b>	450m <sup>2</sup> (15x30m)	650m <sup>2</sup> (20x32,5m)	650m <sup>2</sup> (20x32,5m)	160m <sup>2</sup> (10x16m)	280m <sup>2</sup> (8x35m)	650m <sup>2</sup> (20x32,5m)			
<b>LD3.0</b>	1 000m <sup>2</sup> (16x62m)	1 400m <sup>2</sup> (35x40m)	1 400m <sup>2</sup> (35x40m)	250m <sup>2</sup> (10x25m)	360m <sup>2</sup> (10x36m)	1 400m <sup>2</sup> (35x40m)			

\*with 2 amplifiers

# LD SERIES

## LD1.0/2.0/3.0

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Class D Amplifier



	LD1.0	LD2.0	LD3.0
<b>Coverage</b>	250 m <sup>2</sup> (10*25 m <sup>2</sup> )	450 m <sup>2</sup> (15*30 m <sup>2</sup> )	1000 m <sup>2</sup> (20*45 m <sup>2</sup> )
<b>Operating temperature</b>	0 to +45°C	0 to +45°C	0 to +45°C
<b>Storage temperature</b>	-30 to +70°C	-30 to +70°C	-30 to +70°C
<b>INPUT</b>			
<b>Audio inputs</b>	3 inputs: x2 line/microphone, x1 100V	3 inputs: x2 line/microphone, x1 100V	3 inputs: x2 line/microphone, x1 100V
<b>Connector type</b>	Phoenix and/or Combo Neutrik	Phoenix and/or Combo Neutrik	Phoenix and/or Combo Neutrik
<b>Phantom supply</b>	12V 2mA	12V 2mA	12V 2mA
<b>Sensitivity</b>	-50dB microphone, +40dB 100V, -10dB line	-50dB microphone, +40dB 100V, -10dB line	-50dB microphone, +40dB 100V, -10dB line
<b>Priority</b>	100V input, INPUT 1	100V input, INPUT 1	100V input, INPUT 1
<b>POWER SUPPLY</b>			
<b>Type</b>	Integrated	Integrated	Integrated
<b>Voltage</b>	115/230V (automatic) 50/60 Hz	115/230V (automatic) 50/60 Hz	115/230V (automatic) 50/60 Hz
<b>Nominal power consumption at 1 Ohm</b>	25 W	50 W	90 W
<b>Maximum input power</b>	<250VA	<300VA	<350VA
<b>Consumption at rest on connected loop</b>	9W at 230V AC, 1 loop of 1 Ohm connected, at ambient temperature after 30 minutes of stabilization		
<b>AUDIO CHARACTERISTICS</b>			
<b>THD</b>	<0,5% @1ohm / 1KHz / nominal current	<0,5% @1ohm / 1KHz / nominal current	<0,5% @1ohm / 1KHz / nominal current
<b>Automatic gain control</b>	AGC optimized for speech Dynamic > 36dB	AGC optimized for speech Dynamic > 36dB	AGC optimized for speech Dynamic > 36dB
<b>Bandwidth</b>	80 Hz to 9,5 kHz at -3 dB	80 Hz to 9,5 kHz at -3 dB	80 Hz to 9,5 kHz at -3 dB

	LD1.0	LD2.0	LD3.0
<b>OUTPUT</b>			
<b>Loop impedance</b>	0,5Ω à 3Ω	0,5Ω à 3Ω	0,5Ω à 3Ω
<b>Output voltage</b>	34V rms (48V pK)	34V rms (48V pK)	34V rms (48V pK)
<b>Peak current</b>	8A pK	11A pK	15A pK
<b>RMS current</b>	5A rms	7A rms	10A rms
<b>Slave output</b>	0° or 90° phase shift	0° or 90° phase shift	0° or 90° phase shift
<b>ADDITIONAL FUNCTIONS</b>			
<b>LED display</b>	« Power », « Protect », « Clip », « Loop »	« Power », « Protect », « Clip », « Loop »	« Power », « Protect », « Clip », « Loop »
<b>Metal loss correction</b>	0 to 3 dB per octave	0 to 3 dB per octave	0 to 3 dB per octave
<b>Relay</b>	NO/NC fault relay 0,5A/125Vac, 1A/24VDC	NO/NC fault relay 0,5A/125Vac, 1A/24VDC	NO/NC fault relay 0,5A/125Vac, 1A/24VDC
<b>DIMENSIONS (MM)</b>			
<b>HxLxD</b>	42 x 200 x 215 mm	42 x 200 x 215 mm	42 x 200 x 215 mm
<b>Weight</b>	1,48 kg	1,48 kg	1,48 kg

## RC

Copper tape with 1 conductor designed for induction loops. 1x1,8 mm<sup>2</sup>.



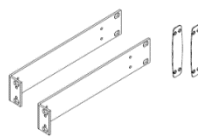
## OP-FSM-02

Tester and magnetic field meter in accordance with the IEC 60118-4 specification. Supplied with an OP-778 headset.

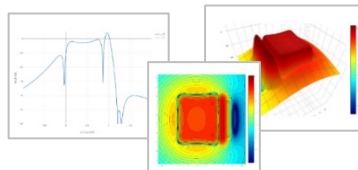


## OP-R

Complete kit for wall mounting or 1 or 2 units of the LD series in a 19" rack.



## Opus Smartloop



The loop simulation software developed by Opus guarantees technical studies that comply with the EN60118-4 standard.

## C10-RC

Terminal block for RC copper foil.

