# LNL-300XA

**LenelS2 XA -13.8 VDC 4 A Switched Mode Power Supply with LNL-300XA-ENC enclosure to mount any PCB - CE marked**

## Product Overview

The new LenelS2 access control range of power supply enclosures have an innovative meshed backplate mounting design specifically to house any PCB form factor door controllers & modules. The XA range is designed to solve compatibility issues and ensure enough space to allow for good airflow, keeping housed electronic devices cool and thus creating greater efficiency.

With different power options and enclosure sizes the range provides a solution for up to 12 LenelS2 controllers/modules (refer to the manual for all the different combinations). The modular construction simplifies maintenance.

Multi-fused outputs with individual Fire Relay functionality (FOM) are provided to allow the installer to protect individual circuits as required.
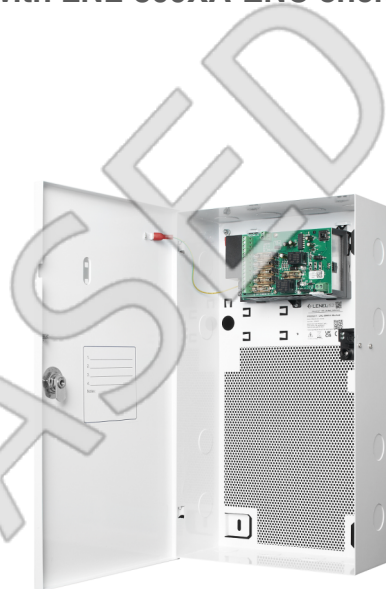
All XA enclosures are provided with a meshed backplate hole pattern, pluggable cable saddles to bundle the cables easily, key and screw locks, back and front tamper, and the necessary fixings and accessories.

The products use energy efficient technology and therefore have a universal mains supply input (90 - 264 VAC).

## Power supply

Each Power supply comprises a 13,8 VDC high efficiency, switched mode Power Supply designed to fit into a robust metal XA enclosure for access control. All power supply models offer fault signalling and can charge a 12 VDC standby battery to provide backup power on a mains failure, plus an additional 0,5 A battery charging to support standby lead acid batteries. Normal operation and fault signal outputs are provided.

All models possess a mains fail relay output while the LNL-XA-PSU12V-2A, LNL-XA-PSU12V4-4A, LNL-XA-PSU12V-5A, LNL-XA-PSU12V4-4APTC models also offer additional Battery Monitoring and Deep Discharge Protection to prevent premature battery failure when operating in standby mode for extended periods. The LNL-XA-PSU12V4-4APTC has self-resettable fuses.

## Details

- Enclosure with meshed backplate (white with LenelS2 logo)
- Mount any PCB form factor on the meshed backplate
- PCB standoffs supplied for housing several LenelS2 controller/modules
- Cost effective switch mode technology
- Front & rear enclosure tamper
- Mains Fail relay output
- Battery Monitoring
- Volt-free fault outputs
- Deep discharge protection
- Independent ancillary relay
- Full rated current to load + 0.5 A battery charging
- Electronic overload protection
- Mains transient protection
- PSU status LED's (mains present & fault)
- Steel - white powder coated inside and outside enclosure
- Installer safe design with all high voltage electronics fully shrouded
- 3 Year warranty

# LNL-300XA

## LenelS2 XA -13.8 VDC 4 A Switched Mode Power Supply with LNL-300XA-ENC enclosure to mount any PCB - CE marked

## Technical specifications

### General

| | |
|---|---|
| Cable guide | Tie-wrapped |
| Locked with keys | Locked with keys and with screws |
| Tamper | Front and rear tamper |
| Network monitoring | No |
| MTBF | 100.000 Hrs |

### Electrical

| | |
|---|---|
| Power supply type | Enclosure + PSU |
| Protected electronics | Yes |

### Electrical input

| | |
|---|---|
| Voltage (rated) | 100 to 240 VAC |
| Frequency | 50 or 60 Hz |
| Max. current | <2.0 A at full load |
| Mains input fuse | T3.15 A (20 mm 250 VAC HBC) |

### Electrical output

| | |
|---|---|
| Voltage 12 V mode (on mains power) | 12.8 to 14.2 VDC (13.8 VDC nominal) |
| Voltage 12 V mode (on battery standby) | 9.8 to 13.0 VDC |
| Ripple | 150 mV-p max |
| Load output fuse | 4 x F1.0 A (20 mm glass) |
| Max. load current | 4 A F4.0 A (20 mm glass) |
| Overload | Electronic shutdown until overload or short circuit removed |
| Rating | 0.1 A at 60 VDC 16 Ohm solid state relay contacts, volt-free |

### Battery

| | |
|---|---|
| Type | 12 VDC Valve Regulated Lead Acid |
| Capacity 12 V mode | 8 / 9 Ah max. |
| Charging fuse protection | 4x F4.0 A (20 mm glass) |

### Physical

| | |
|---|---|
| Physical dimensions | 437 x 245 x 110 mm |
| Net weight | 4.2 kg |
| Colour | White (RAL 9003) |
| Material | Sheet steel enclosure |
| Mounting type | Wall mount |
| Cable entry - Mains input | max 2.5 mm2 |
| Cable entry - Other terminals | max 2.5 mm2 |

### Environmental

| | |
|---|---|
| Environment | Indoor |
| Operating temperature | -10 to +40°C |
| Storage temperature | -20 to +80°C |
| Relative humidity | 75% noncondensing |
| BTU/hr | 250 |
| IP rating | IP30 |
| IK rating | IK08 |

### Regulatory

| | |
|---|---|
| Compliancy | CE, RoHS 3, UKCA, WEEE |

### How to order

| | |
|---|---|
| LNL-250XA | LenelS2 XA - 13.8 VDC 2 A Switched Mode Power Supply (= LNL-XA-PSU12V-2A) with LNL-250XA-ENC enclosure (330 x 377 x 85 mm) to mount any PCB on a meshed backplate, including cable saddle, key and screw locked, front and pryoff tamper - CE marked |
| LNL-250XA-ENC | LenelS2 XA - Empty Enclosure (330 x 377 x 85 mm) to mount any PCB on a meshed backplate, including front and pryoff tamper, key and screw locked. Fits a LNL-XA-PSU12V-2A and LNL-XA-POE - CE marked |
| LNL-XA-PSU12V-2A | LenelS2 XA - 90 to 264 VAC (50 - 60 Hz) 13.8 VDC 2 A PSU Module only, (also DIN RAIL mountable) fits in any XA-ENC enclosure, supports battery backup - CE marked |
| LNL-XA-POE | LenelS2 XA - 13.8 VDC 3 A max (IEEE 802.3bt ) / 1A max (IEEE 802.3at) Ultra PoE Power Supply only, (also DIN RAIL mountable) fits in any XA-ENC enclosure, supports battery backup - CE marked |
| LNL-300XA | LenelS2 XA -13.8 VDC 4 A Switched Mode Power Supply (=LNL-XA-PSU12V4-4A), with LNL-300XA-ENC enclosure (437 x 245 x 110 mm) to mount any PCB on a meshed backplate, including cable saddle, key and screw locked, front and pryoff tamper - CE marked |
| LNL-300XA-ENC | LenelS2 XA - Empty Enclosure (437 x 245 x 110 mm) only to mount any PCB on a meshed backplate, including front and pryoff tamper, key and screw locked. Fits a LNL-XA-PSU12V-2A, LNL-XA-POE, LNL-XA-PSU12V4-4A, LNL-XA-PSU12V-5A - CE marked |
| LNL-XA-PSU12V4-4A | LenelS2 XA - 90 to 264 VAC (50 - 60 Hz) 13.8 VDC 4 A PSU Module only, (also DIN RAIL mountable) - with 4 Fused Fire Output Module with LED's (12VDC) and individual Fire Relay functionality, fits in any XA-ENC enclosure, supports battery backup - CE marked |
| LNL-XA-PSU12V4-4APTC | LenelS2 XA - 90 to 264 VAC (50 - 60 Hz) 13.8 VDC 4 A PSU Module only, (also DIN RAIL mountable) - with 4 x 1 A PTC self-resettable fuses, fits in any XA-ENC enclosure, supports battery backup - CE marked |
| LNL-XA-LOCKSET | LenelS2 XA - 4x Spare keys with 2x locks for any XA and UL enclosure |
| LNL-XA-FIXINGKITSET | LenelS2 XA - Cable management fixing set that includes 60x screw mounted cable tie saddles, 60x tie wraps and screws |

![Kidde Global Solutions logo]