



LNL-600XA

LenelS2 XA - 13.8 VDC 8 A / 27.6 VDC 4 A Switched Mode Power Supply with LNL-600XA-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
- Front & rear enclosure tampers
- Mains Fail relay output
- Volt-free fault outputs
- Independent ancillary relay
- Selectable 13.8 V / 27.6 VDC output
- 90 to 264 VAC range
- Electronic overload protection
- Mains transient protection
- Modular design
- 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

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Technical specifications

General

Cable guide	Tie-wrapped
Locked with keys	Yes, 2 locks with each 2 keys
Tamper	Front and rear tamper
Network monitoring	No
MTBF	100,000 h

Visual indicators

Red LED indication	Fault present, output fuse fail or protection fuse fail
Green LED indication	Mains present

Electrical

Power supply type	Enclosure + PSU
Power consumption	1.5 W (no load and no battery connected)
Protected electronics	Yes

Electrical input

Voltage (rated)	100 to 240 VAC
Voltage (operating)	90 to 264 VAC
Frequency	50 to 60 Hz
Max. current	2 A (@ 90 VAC)
Mains input fuse	T3.15 A (20 mm 250 VAC HBC)

Electrical output

Voltage 12 V mode (on mains power)	13.5 to 14 VDC (13.8 VDC nominal)
Voltage 12 V mode (on battery standby)	10.5 to 12.4 VDC
Voltage 24 V mode (on mains power)	27 to 28 VDC (27.6 VDC nominal)
Voltage 24 V mode (on battery standby)	21 to 24.7 VDC
Ripple	100 mV p-p max.
Load output fuse	F1.0 A
Max. load current	8 A (12 V mode) / 4 A (24 V mode) max.
Overload	Electronic shutdown until overload or short circuit removed
Outputs	8 x F1.0 A (12 V and 24 V mode) / 8 x F0.5 spare fuse kit
Rating	Class 2

Battery

Type	12 VDC valve regulated lead acid
Battery capacity	18 / 20 Ah max.
Capacity 12 V mode	18 / 20 Ah max.
Capacity 24 V mode	18 / 20 Ah max.
Charging fuse protection	0.5 A self-resetting thermal fuse
Battery charge	0.5 A

Physical

Physical dimensions	478 x 515 x 146 mm
Net weight	10.5 kg
Shipping weight	10.6 kg
Colour	White (RAL 9003)
Material	Sheet steel enclosure
Mounting type	Wall mount
Cable entry - Mains input	max. 2.5 mm ²
Cable entry - Other terminals	max. 1.5 mm ²

Environmental

Operating temperature	-10 to +40°C
Storage temperature	-20 to +80°C
Relative humidity	75% noncondensing
BTU/hr	471
IP rating	IP30
IK rating	IK08

Regulatory

Compliance	CE, RoHS 3, UKCA, WEEE
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How to order

LNL-600XA	LenelS2 XA - 13.8 VDC 8 A / 27.6 VDC 4 A Switched Mode Power Supply (= LNL-XA-PSU1224V-8A) with LNL-600XA-ENC enclosure (515 x 478 x 146 mm) to mount any PCB on a meshed backplate, including cable saddle, key and screw locked, front and pryoff tamper - CE marked
LNL-600XA-ENC	LenelS2 XA - Empty Enclosure (515 x 478 x 146 mm) to mount any PCB on a meshed backplate, including front and pryoff tamper, key and screw locked. Fits a LNL-XA-PSU1224V-8A - CE marked
LNL-600XA-SET	LenelS2 XA - 2 Hinged meshed Expansion backplates Sets with cable guide support for LNL-600XA-ENC Enclosure
LNL-XA-PSU1224V-8A	LenelS2 XA - 90 to 264 VAC (50 - 60 Hz) 13.8 VDC 8 A PSU Module only, (also DIN RAIL mountable) fits in any XA-ENC enclosure, supports battery backup - CE marked
LNL-XA-FOM8	LenelS2 XA - 8-Way Fused Output Module with LED's (12 VDC) for LNL-600XA-ENC - CE marked
LNL-XA-FIREFOM8	LenelS2 XA - 8-Way Fused Fire Output Module with LED's (12 VDC) and individual Fire Relay functionality - CE marked
LNL-600XA-TAMPER	LenelS2 XA - Pryoff and Front Tamper for LNL-600XA enclosure
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



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