

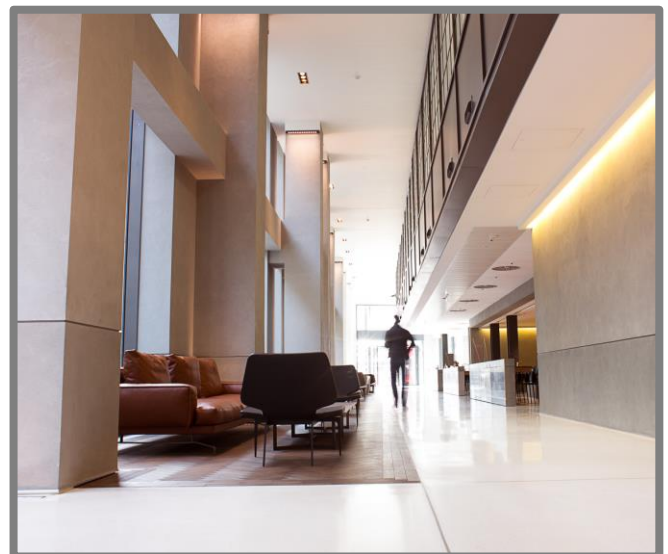
## LX848

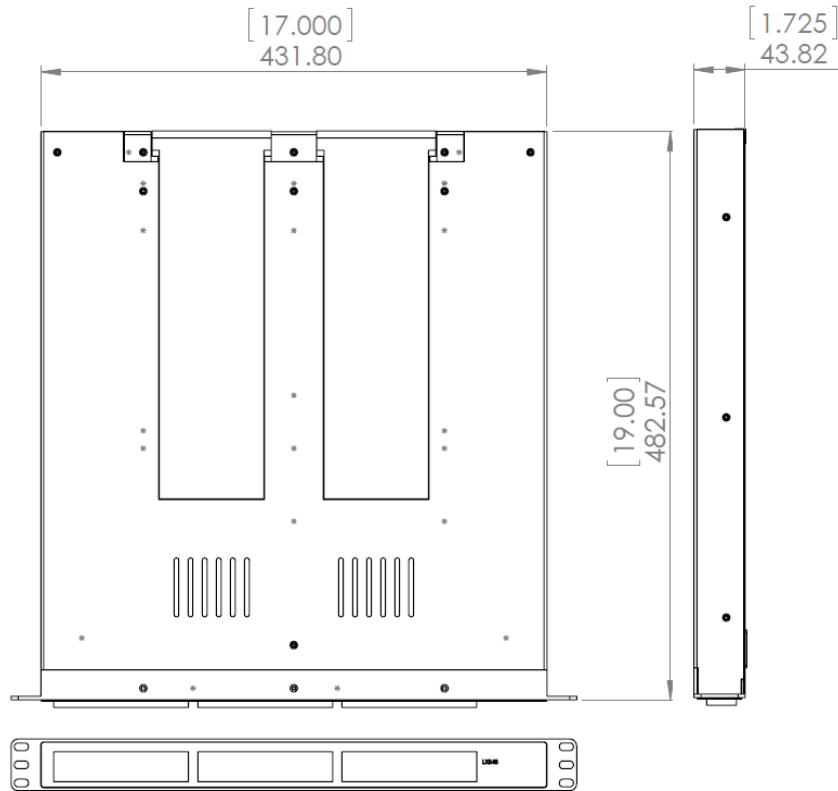
Prolojik's **LX848** is an innovative application of standards-based technologies, including Power over Ethernet, DALI and TCP/IP married with over a decade of experience in delivering the highest levels of functionality and integration in lighting controls.



### Key Features:

- Solution focused on the energy efficiency of LED lighting
- Eliminate the need for final circuits for lighting and lighting control
- Single harmonized containment solution for converged ICT systems (data, telephony, wireless, CCTV, Security, BMS, access control & SELV power systems etc.) and lighting control in the ceiling space
- Power over Ethernet (PoE) Power distribution compliant to IEEE 802.3at Type 1 and 2
- DALI communication compliant to EN 62386 and NEMA NS 243
- Integrated support for LED emergency lighting including testing to EN 62034
- Automated one-button addressing of DALI ballasts
- Intelligent power management providing real-time load power arbitration
- Capacity to supply up to 48 luminaires at 60W per luminaire
- "PC-free" management and diagnostics for service personnel
- Market leading management software
- Compatible with Prolojik's extensive portfolio of DALI based peripherals
- Fully compatible with existing Prolojik systems for phased system upgrade





## Specifications

### Input

Input Voltage	85-264 VAC
Input Frequency	47-63 Hz
Input Current	13 A typical at 230 VAC
Inrush Current	70 A maximum at 264 VAC
Power Factor	>0.9
Earth Leakage Current	1.5 mA max 264 VAC 60Hz
Input Protection	Internal 2 x T20 A/250 V fuse

### Output

Output Voltage	56V DC
Maximum Load Power	3000W
Initial Set Accuracy	±1% of nominal with 50% load
Minimum Load	No minimum load required
Line Regulation	±0.5% maximum
Load Regulation	V1: ±0.5%, V2: ±5%
Start-up Delay	1 s typical
Over/Undershoot	0.5% typical
Transient Response	4% deviation, recovery to within 2% in 500 µs for 50-75-50% load change
Ripple & Noise	1% max pk-pk V Standby: 3% max pk-pk, 20 MHz bandwidth
Overvoltage Protection	115-140% of V1 nominal, recycle input AC to reset
Over Temperature	Protects the unit against over temperature. Auto restart
Overcurrent Protection	110 - 140% V1, V Standby power limited
Short Circuit Protection	Continuous, trip and restart (hiccup mode)
Temperature Coefficient	0.02%/°C (after 20 minute warm up)
Remote Sense	Compensates for 0.5V total drop

### General

Efficiency	90% typical
Isolation	3000 VAC Input to Output, 4000 VAC Input to Output 1500 VAC Input to Ground, 1500 VAC Output to Ground
Switching Frequency	70 kHz PFC typical, 130 kHz main converter typical
Power Density	18 W/in <sup>3</sup>
Signals	AC OK, DC OK, Inhibit
MTBF	470 KHrs to TELECORDIA SR-332, 25 °C, GB

### Connection

Termination:	48 FCC68 8x8 ports
Foreign System Interface	4 x volt free input for integration of fire and security systems
User Interface:	Port selection and override

### Environment

Operating Temperature	-20 °C to +70 °C, derate linearly from +50 °C at 2.5 %/°C to 50% load at +70 °C
Cooling	Internal load dependent variable speed fans
Operating Humidity	95% RH, non-condensing
Storage Temperature	-40 °C to +85 °C
Operating Altitude	3000 m
Shock	±3 shocks in each axis (total 18 shocks) 30 g 11 ms (half sine). Compliant with EN60068-2-27.
Vibration	2 g 10-500 Hz 10 sweeps. Compliant with EN60068-2-6.

### EMC & Immunity

Emissions	EN55022 class A conducted & radiated(1)
Immunity	Compliant with EN61204-3:2000 high severity levels
Harmonic Currents	EN61000-3-2 class A EN61000-3-2 class C for loads >20%
Voltage Flicker	EN61000-3-3
ESD Immunity	EN61000-4-2, level 3, Perf Criteria A
Radiated Immunity	EN61000-4-3, level 3 Perf Criteria A
EFT/Burst	EN61000-4-4, installation class 3, Perf Criteria A
Surge	EN61000-4-5, level 3 Perf Criteria A
Conducted Immunity	EN61000-4-6, level 3, Perf Criteria A
Dips & Interruptions	EN61000-4-11, 30% 10 ms, 60% 100 ms, 100% 5000 ms, Perf Criteria A, B, B. Semi F47 Compliant.
Safety Approvals	IEC60950-1: CB Report, CSA-C22.2 No. 60950-1-05, UL60950-1, TUV EN60950-1.

### Important

All wiring must be carried out by a qualified electrician in accordance with the current edition of the wiring regulations and any applicable regional standards

Prolojik maintains a policy of ongoing improvement, and the information herein is subject to change without notice