

## PoE Switch

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

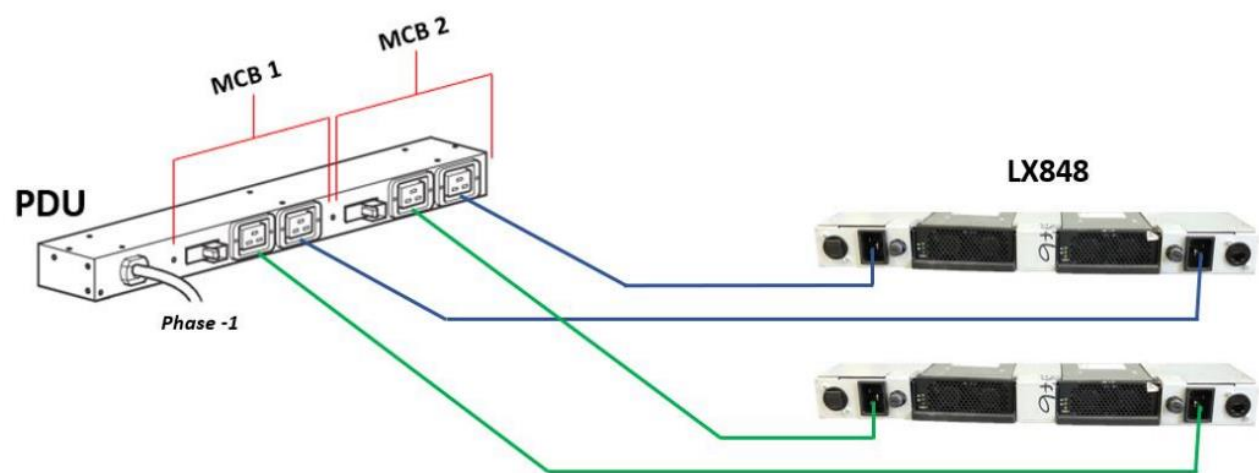
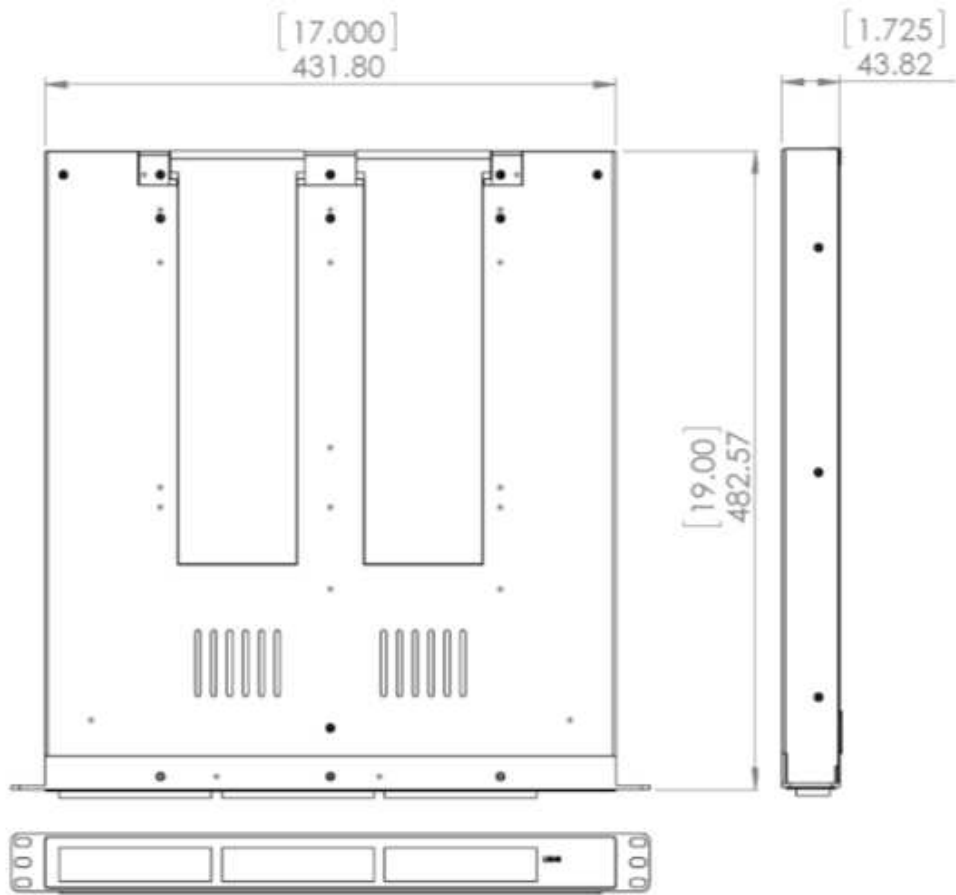
- Solution focused on the energy efficiency of LED lighting
- Eliminate the need for final circuits for lighting and lighting control
- Single harmonized containment solution for converged ICT systems (data, telephony, wireless, CCTV, Security, BMS, access control & SELV power systems etc.) and lighting 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

Prolojik | Perspective House | 7 Cliveden Office Village | Lancaster Road  
High Wycombe | Buckinghamshire HP12 3YZ | United Kingdom  
+44 (0)1494 515100 | [info@prolojik.com](mailto:info@prolojik.com) | [prolojik.com](http://prolojik.com)

Specification

<b>Input</b>		<b>Connection</b>	
Input Voltage	85-230 VAC	Termination:	48 FCC68 8x8 ports
Input Frequency	47-63 Hz	Foreign System Interface	4 x volt free input for integration of fire and security systems
Input Current	13 A typical at 230 VAC	User Interface:	Port selection and override
Inrush Current	70 A maximum at 264 VAC		
Power Factor	>0.9		
Earth Leakage Current	1.5 mA max 264 VAC 60Hz	<b>Environment</b>	
Input Protection	Internal 2 x T20 A/250 V fuse	Operating Temperature	-20 °C to +70 °C, derate linearly from +50 °C at 2.5 %/°C to 50% load at +70
<b>Output</b>		Cooling	Internal load dependent variable speed fans
Output Voltage	56V DC	Operating Humidity	95% RH, non-condensing
Maximum Load Power	3000W	Storage Temperature	-40 °C to +85 °C
Initial Set Accuracy	±1% of nominal with 50% load	Operating Altitude	3000 m
Minimum Load	No minimum load required	Shock	±3 shocks in each axis (total 18 shocks) 30 g 11 ms (half sine). Compliant with EN60068-2-27.
Line Regulation	±0.5% maximum		2g 10-500 Hz 10 sweeps. Compliant with EN60068-2-6.
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	<b>EMC &amp; Immunity</b>	
Over Temperature	Protects the unit against over temperature. Auto restart	Emissions	EN55022 class A conducted & radiated(1)
Overcurrent Protection	110 - 140% V1, V Standby power limited	Immunity	Compliant with EN61204-3:2000 high severity levels
Short Circuit Protection	Continuous, trip and restart (hiccup mode)	Harmonic Currents	EN61000-3-2 class A EN61000-3-2 class C for loads >20%
Temperature Coefficient	0.02%/°C (after 20 minute warm up)	Voltage Flicker	EN61000-3-3
Remote Sense	Compensates for 0.5V total drop	ESD Immunity	EN61000-4-2, level 3, Perf Criteria A
<b>General</b>		Radiated Immunity	EN61000-4-3, level 3 Perf Criteria A
Efficiency	90% typical	EFT/Burst	EN61000-4-4, installation class 3, Perf Criteria A
Isolation	3000 VAC Input to Output, 4000 VAC Input to Output, 1500 VAC Input to Ground, 1500 VAC Output to Ground	Surge	EN61000-4-5, level 3 Perf Criteria A
Switching Frequency	70 kHz PFC typical, 130 kHz main converter typical	Conducted Immunity	EN61000-4-6, level 3, Perf Criteria A
Power Density	18 W/in3	Dips & Interruptions	EN61000-4-11, 30% 10 ms, 60% 100 ms, 100% 5000 ms, Perf Criteria A, B, B. Semi F47 Compliant.
Signals	AC OK, DC OK, Inhibit		IEC60950-1: CB Report, CSA-C22.2 No. 60950-1-05, UL60950-1, TUV
MTBF	470 KHrs to TELECORDIA SR-332, 25°C, GB	Safety Approvals	EN60950-1.

## Technical Data



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