























(Independent type)









## Features

- · Constant power mode output with multiple stage selectable by NFC setting (H-type)
- Constant voltage mode output(12V/24V)
- · Plastic housing with class II and PFC design
- · Meet UL 8750 Class 2 / Class P power unit
- · Flicker free, complying with CE ErP directive
- Standby power consumption <0.5W</li>
- · Meet emergency lighting (EL) function application
- Fully encapsulated with IP67
- Minimum dimming level 0.1% (DALI-2 DT6)
- Dimming functions: 3 in 1 dimming (Dim-to-off) DALI-2 + Push dimming
- · 5 years warranty

# Applications

- · Recessed Light
- Down Light
- Panel Light
- · Commercial Lighting
- · Decorative Lighting
- · LED strip lighting
- · DALI digital Lighting

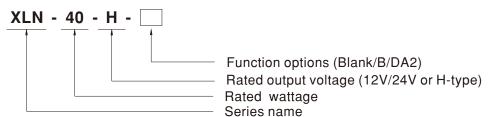
## GTIN CODE

MW Search: https://www.meanwell.com/serviceGTIN.aspx

# Description

XLN-40 Series is a 40W with constant power and constant voltage output LED driver. It can operate from 100~305VAC and output current ranging between 600 mA to 1400 mA selectable by NFC setting. Thanks to high efficiency up to 88%, it is able to operate for -25  $^\circ$   $^\circ$   $^\circ$ 0  $^\circ$ 0 case temperature under free air convection. XLN-40 is designed based on latest safety regulation with 3 in 1 and DALI-2 dimming. XLN-40 can also be adjusted for brightness with a push button as a simple way dimming, so it provides more flexibility for LED Lighting application.

# Model Encoding



Type	Function	Note
Blank	H type output current selectable by NFC setting with constant power mode	
Dialik	12, 24V Constant voltage output	In stock
В	H type output current selectable by NFC setting and built in 3 in 1 dimming	III STOCK
DA2	H type output current selectable by NFC setting and built in DALI-2 dimming	

Note: 1. 12V/24V output is fixed without NFC function and Dimming.

2. For more current setting, please contact MW sales representative.

## **SPECIFICATION**

		XLN-40-12	XLN-40-24				
	RATED VOLTAGE	12V	24V				
	RATED CURRENT	3.4A	1.7A				
OUTPUT	RATED POWER Note.2	40.8W	40.8W				
	RIPPLE & NOISE (max.) Note.3	120mVp-p	240mVp-p				
	VOLTAGE TOLERANCE Note.4	±4.0%	,				
	LINE REGULATION	±0.5%					
	LOAD REGULATION	±2%					
		500ms, 100ms/230VAC, 1000ms, 100ms/1	15VAC				
	VOLTAGE RANGE	100 ~ 305VAC 141 ~ 400VDC	10/10				
	FREQUENCY RANGE	47 ~ 63Hz					
}		$PF \ge 0.97/115$ VAC, $PF \ge 0.95/230$ VAC, $PF \ge 0.92/277$ VAC@full load					
	POWER FACTOR	(Please refer to "POWER FACTOR (PF) CHARACTERISTIC" section)					
		THD<10%(@load≥50%/230VAC; @load≥75%/277VAC), THD<15%(@load≥50%/115VAC)					
NPUT	TOTAL HARMONIC DISTORTION	(Please refer to "TOTAL HARMONIC DISTORTION(THD)" section)					
1101	EFFICIENCY (Typ.)	86% 88%					
	AC CURRENT	0.5A / 115VAC					
	INRUSH CURRENT(Typ.)	COLD START 10A(twidth=100µs measured	at 50% Ipeak) at 230VAC; Per NEMA 410				
	MAX. No. of PSUs on 16A						
	CIRCUIT BREAKER	51 units (circuit breaker of type B) / 51 units	(circuit breaker of type C) at 230VAC				
1	LEAKAGE CURRENT	<0.75mA / 277VAC					
		105 ~ 220% rated output power					
	OVER LOAD	Protection type:Hiccup mode, recovers automatically after fault condition is removed					
	SHORT CIRCUIT	Hiccup mode, recovers automatically after fa	<u> </u>				
ROTECTION		13 ~ 16V	26 ~ 32V				
	OVER VOLTAGE	Shut down and latch off o/p voltage, re-power					
1	OVER TEMPERATURE	Shut down output voltage, recovers automa					
	WORKING TEMP.	Tcase=-25 ~ 90°C (Please refer to " OUTPU	· · · · · · · · · · · · · · · · · · ·				
}	MAX. CASE TEMP.	Tcase=90°C	1 20/12 to 12iiii 2iu ii ena cooneny				
}	WORKING HUMIDITY	20 ~ 90% RH non-condensing					
NVIRONMENT	STORAGE TEMP., HUMIDITY	-40 ~ +80°C, 10 ~ 95% RH					
}	TEMP. COEFFICIENT						
		±0.03%/°C (0 ~ 50°C)	Outle and along V V 7				
	VIBRATION	10 ~ 500Hz, 2G 10min./1cycle, period for 60min. each along X, Y, Z axes					
		ENEC BS EN/EN61347-1, BS EN/EN61347-2-13(EL) appendix J suitable for emergency installations (DC input 176-280 VDC); BS EN/EN62384, GB19510.14, GB19510.1, EAC TP TC 004, UL8750 (Type HL and Class P); CSA C22.2 No. 250.13-12 approved;					
	SAFETY STANDARDS	BS EN/EN62384, GB19510.14, GB19510.	1. EAC TP TC 004.UL8750(Type HL and Class	installations(DC input 1/6-280VDC); P): CSA C22.2 No. 250.13-12 approved:			
	SAFETY STANDARDS	BS EN/EN62384, GB19510.14, GB19510. Design refer to AS/NZS 61347-1, AS/NZS	1, EAC TP TC 004, UL8750 (Type HL and Class	Installations(DC input 176-280VDC); P); CSA C22.2 No. 250.13-12 approved;			
	SAFETY STANDARDS WITHSTAND VOLTAGE	BS EN/EN62384, GB19510.14, GB19510.	1, EAC TP TC 004, UL8750 (Type HL and Class	installations(DC input 176-280 VDC); P); CSA C22.2 No. 250.13-12 approved;			
	WITHSTAND VOLTAGE	BS EN/EN62384, GB19510.14, GB19510. Design refer to AS/NZS 61347-1, AS/NZS I/P-O/P:3.75KVAC	1, EAC TP TC 004,UL8750(Type HL and Class 61347-2-13;	installations(DC input 176-280VDC); P); CSA C22.2 No. 250.13-12 approved;			
		BS EN/EN62384, GB19510.14, GB19510. Design refer to AS/NZS 61347-1, AS/NZS I/P-O/P:3.75KVAC I/P-O/P:>100M Ohms / 500VDC / 25°C/ 70	1, EAC TP TC 004,UL8750(Type HL and Class 61347-2-13; % RH	P); CSA C22.2 No. 250.13-12 approved;			
	WITHSTAND VOLTAGE	BS EN/EN62384, GB19510.14, GB19510. Design refer to AS/NZS 61347-1, AS/NZS I/P-O/P:3.75KVAC I/P-O/P:>100M Ohms / 500VDC / 25°C / 70 Parameter	1, EAC TP TC 004,UL8750(Type HL and Class 61347-2-13; % RH Standard	P); CSA C22.2 No. 250.13-12 approved;  Test Level/Note			
	WITHSTAND VOLTAGE ISOLATION RESISTANCE	BS EN/EN62384, GB19510.14, GB19510. Design refer to AS/NZS 61347-1, AS/NZS I/P-O/P:3.75KVAC I/P-O/P:>100M Ohms / 500VDC / 25°C / 70 Parameter Conducted	1, EAC TP TC 004, UL8750 (Type HL and Class 61347-2-13;  % RH  Standard  BS EN/EN55015 (CISPR15), GB/T 17743	P); CSA C22.2 No. 250.13-12 approved;  Test Level/Note			
	WITHSTAND VOLTAGE	BS EN/EN62384, GB19510.14, GB19510. Design refer to AS/NZS 61347-1, AS/NZS I/P-O/P:3.75KVAC I/P-O/P:>100M Ohms / 500VDC / 25°C / 70 Parameter Conducted Radiated	1, EAC TP TC 004, UL8750 (Type HL and Class 61347-2-13;  % RH  Standard  BS EN/EN55015 (CISPR15), GB/T 17743  BS EN/EN55015 (CISPR15), GB/T 17743	P); CSA C22.2 No. 250.13-12 approved;  Test Level/Note			
AFETY &	WITHSTAND VOLTAGE ISOLATION RESISTANCE	BS EN/EN62384, GB19510.14, GB19510. Design refer to AS/NZS 61347-1, AS/NZS I/P-O/P:3.75KVAC I/P-O/P:>100M Ohms / 500VDC / 25°C / 70 Parameter Conducted Radiated Harmonic Current	1, EAC TP TC 004, UL8750 (Type HL and Class 61347-2-13;  % RH  Standard  BS EN/EN55015 (CISPR15), GB/T 17743  BS EN/EN55015 (CISPR15), GB/T 17743  BS EN/EN65015 (CISPR15), GB/T 17743	P); CSA C22.2 No. 250.13-12 approved;  Test Level/Note Class C @load≥50%			
	WITHSTAND VOLTAGE ISOLATION RESISTANCE	BS EN/EN62384, GB19510.14, GB19510. Design refer to AS/NZS 61347-1, AS/NZS I/P-O/P:3.75KVAC I/P-O/P:>100M Ohms / 500VDC / 25°C / 70 Parameter Conducted Radiated Harmonic Current Voltage Flicker	1, EAC TP TC 004, UL8750 (Type HL and Class 61347-2-13;  % RH  Standard  BS EN/EN55015 (CISPR15), GB/T 17743  BS EN/EN55015 (CISPR15), GB/T 17743	P); CSA C22.2 No. 250.13-12 approved;  Test Level/Note			
	WITHSTAND VOLTAGE ISOLATION RESISTANCE	BS EN/EN62384, GB19510.14, GB19510. Design refer to AS/NZS 61347-1, AS/NZS I/P-O/P:3.75KVAC I/P-O/P:>100M Ohms / 500VDC / 25°C / 70 Parameter Conducted Radiated Harmonic Current Voltage Flicker BS EN/EN61547	1, EAC TP TC 004, UL8750 (Type HL and Class 61347-2-13;  % RH  Standard  BS EN/EN55015 (CISPR15), GB/T 17743  BS EN/EN55015 (CISPR15), GB/T 17743  BS EN/EN61000-3-2, GB17625.1  BS EN/EN61000-3-3	P); CSA C22.2 No. 250.13-12 approved;  Test Level/Note Class C @load≥50%			
	WITHSTAND VOLTAGE ISOLATION RESISTANCE	BS EN/EN62384, GB19510.14, GB19510. Design refer to AS/NZS 61347-1, AS/NZS I/P-O/P:3.75KVAC I/P-O/P:>100M Ohms / 500VDC / 25°C / 70 Parameter Conducted Radiated Harmonic Current Voltage Flicker BS EN/EN61547 Parameter	1, EAC TP TC 004, UL8750 (Type HL and Class 61347-2-13;  % RH  Standard  BS EN/EN55015 (CISPR15), GB/T 17743  BS EN/EN55015 (CISPR15), GB/T 17743  BS EN/EN61000-3-2, GB17625.1  BS EN/EN61000-3-3	P); CSA C22.2 No. 250.13-12 approved;  Test Level/Note Class C @load≥50% Test Level/Note			
	WITHSTAND VOLTAGE ISOLATION RESISTANCE	BS EN/EN62384, GB19510.14, GB19510. Design refer to AS/NZS 61347-1, AS/NZS I/P-O/P:3.75KVAC I/P-O/P:>100M Ohms / 500VDC / 25°C / 70 Parameter Conducted Radiated Harmonic Current Voltage Flicker BS EN/EN61547 Parameter ESD	1, EAC TP TC 004, UL8750 (Type HL and Class 61347-2-13;  % RH  Standard  BS EN/EN55015 (CISPR15), GB/T 17743  BS EN/EN55015 (CISPR15), GB/T 17743  BS EN/EN61000-3-2, GB17625.1  BS EN/EN61000-3-3  Standard  BS EN/EN61000-4-2	P); CSA C22.2 No. 250.13-12 approved;  Test Level/Note Class C @load≥50%  Test Level/Note Level 3, 8KV air ; Level 2, 4KV contact			
	WITHSTAND VOLTAGE ISOLATION RESISTANCE EMC EMISSION	BS EN/EN62384, GB19510.14, GB19510. Design refer to AS/NZS 61347-1, AS/NZS I/P-O/P:3.75KVAC I/P-O/P:>100M Ohms / 500VDC / 25°C / 70 Parameter Conducted Radiated Harmonic Current Voltage Flicker BS EN/EN61547 Parameter	1, EAC TP TC 004, UL8750 (Type HL and Class 61347-2-13;  % RH  Standard  BS EN/EN55015 (CISPR15), GB/T 17743  BS EN/EN55015 (CISPR15), GB/T 17743  BS EN/EN61000-3-2, GB17625.1  BS EN/EN61000-3-3	P); CSA C22.2 No. 250.13-12 approved;  Test Level/Note Class C @load≥50% Test Level/Note			
	WITHSTAND VOLTAGE ISOLATION RESISTANCE	BS EN/EN62384, GB19510.14, GB19510. Design refer to AS/NZS 61347-1, AS/NZS I/P-O/P:3.75KVAC I/P-O/P:>100M Ohms / 500VDC / 25°C / 70 Parameter Conducted Radiated Harmonic Current Voltage Flicker BS EN/EN61547 Parameter ESD	1, EAC TP TC 004, UL8750 (Type HL and Class 61347-2-13;  % RH  Standard  BS EN/EN55015 (CISPR15), GB/T 17743  BS EN/EN55015 (CISPR15), GB/T 17743  BS EN/EN61000-3-2, GB17625.1  BS EN/EN61000-3-3  Standard  BS EN/EN61000-4-2	P); CSA C22.2 No. 250.13-12 approved;  Test Level/Note Class C @load≥50%  Test Level/Note Level 3, 8KV air ; Level 2, 4KV contact			
	WITHSTAND VOLTAGE ISOLATION RESISTANCE EMC EMISSION	BS EN/EN62384, GB19510.14, GB19510. Design refer to AS/NZS 61347-1, AS/NZS I/P-O/P:3.75KVAC I/P-O/P:>100M Ohms / 500VDC / 25°C / 70 Parameter Conducted Radiated Harmonic Current Voltage Flicker BS EN/EN61547 Parameter ESD Radiated	1, EAC TP TC 004, UL8750 (Type HL and Class 61347-2-13;  % RH  Standard  BS EN/EN55015 (CISPR15), GB/T 17743  BS EN/EN55015 (CISPR15), GB/T 17743  BS EN/EN61000-3-2, GB17625.1  BS EN/EN61000-3-3  Standard  BS EN/EN61000-4-2  BS EN/EN61000-4-3	P); CSA C22.2 No. 250.13-12 approved;  Test Level/Note Class C @load≥50%  Test Level/Note Level 3, 8KV air; Level 2, 4KV contact Level 2			
	WITHSTAND VOLTAGE ISOLATION RESISTANCE EMC EMISSION	BS EN/EN62384, GB19510.14, GB19510. Design refer to AS/NZS 61347-1, AS/NZS I/P-O/P:3.75KVAC I/P-O/P:>100M Ohms / 500VDC / 25°C / 70 Parameter Conducted Radiated Harmonic Current Voltage Flicker BS EN/EN61547 Parameter ESD Radiated EFT/Burst	1, EAC TP TC 004, UL8750 (Type HL and Class 61347-2-13;  % RH  Standard  BS EN/EN55015 (CISPR15), GB/T 17743  BS EN/EN55015 (CISPR15), GB/T 17743  BS EN/EN61000-3-2, GB17625.1  BS EN/EN61000-3-3  Standard  BS EN/EN61000-4-2  BS EN/EN61000-4-2  BS EN/EN61000-4-4  BS EN/EN61000-4-4	P); CSA C22.2 No. 250.13-12 approved;  Test Level/Note Class C @load≥50%  Test Level/Note Level 3, 8KV air; Level 2, 4KV contact Level 2 Level 2			
	WITHSTAND VOLTAGE ISOLATION RESISTANCE EMC EMISSION	BS EN/EN62384, GB19510.14, GB19510. Design refer to AS/NZS 61347-1, AS/NZS I/P-O/P:3.75KVAC I/P-O/P:>100M Ohms / 500VDC / 25°C / 70 Parameter Conducted Radiated Harmonic Current Voltage Flicker BS EN/EN61547 Parameter ESD Radiated EFT/Burst Surge	1, EAC TP TC 004, UL8750 (Type HL and Class 61347-2-13;  % RH  Standard  BS EN/EN55015 (CISPR15), GB/T 17743  BS EN/EN55015 (CISPR15), GB/T 17743  BS EN/EN61000-3-2, GB17625.1  BS EN/EN61000-3-3  Standard  BS EN/EN61000-4-2  BS EN/EN61000-4-2  BS EN/EN61000-4-3  BS EN/EN61000-4-4  BS EN/EN61000-4-5	P); CSA C22.2 No. 250.13-12 approved;  Test Level/Note Class C @load≥50%  Test Level/Note Level 3, 8KV air; Level 2, 4KV contact Level 2 Level 2 Level 3, 1KV/Line-Line			
SAFETY &	WITHSTAND VOLTAGE ISOLATION RESISTANCE EMC EMISSION	BS EN/EN62384, GB19510.14, GB19510. Design refer to AS/NZS 61347-1, AS/NZS I/P-O/P:3.75KVAC I/P-O/P:>100M Ohms / 500VDC / 25°C / 70 Parameter Conducted Radiated Harmonic Current Voltage Flicker BS EN/EN61547 Parameter ESD Radiated EFT/Burst Surge Conducted Magnetic Field	1, EAC TP TC 004, UL8750 (Type HL and Class 61347-2-13;  % RH  Standard  BS EN/EN55015 (CISPR15), GB/T 17743  BS EN/EN61000-3-2, GB17625.1  BS EN/EN61000-3-3  Standard  BS EN/EN61000-4-2  BS EN/EN61000-4-2  BS EN/EN61000-4-3  BS EN/EN61000-4-4  BS EN/EN61000-4-6  BS EN/EN61000-4-8	P); CSA C22.2 No. 250.13-12 approved;  Test Level/Note Class C @load≥50%  Test Level/Note Level 3, 8KV air; Level 2, 4KV contact Level 2 Level 2 Level 2 Level 3, 1KV/Line-Line Level 2			
	WITHSTAND VOLTAGE ISOLATION RESISTANCE EMC EMISSION	BS EN/EN62384, GB19510.14, GB19510. Design refer to AS/NZS 61347-1, AS/NZS I/P-O/P:3.75KVAC I/P-O/P:>100M Ohms / 500VDC / 25°C / 70 Parameter Conducted Radiated Harmonic Current Voltage Flicker BS EN/EN61547 Parameter ESD Radiated EFT/Burst Surge Conducted Magnetic Field Voltage Dips and Interruptions	1, EAC TP TC 004, UL8750 (Type HL and Class 61347-2-13;  % RH  Standard  BS EN/EN55015 (CISPR15), GB/T 17743  BS EN/EN55015 (CISPR15), GB/T 17743  BS EN/EN61000-3-2, GB17625.1  BS EN/EN61000-3-3  Standard  BS EN/EN61000-4-2  BS EN/EN61000-4-2  BS EN/EN61000-4-3  BS EN/EN61000-4-4  BS EN/EN61000-4-5  BS EN/EN61000-4-6	P); CSA C22.2 No. 250.13-12 approved;  Test Level/Note Class C @load≥50%  Test Level/Note Level 3, 8KV air; Level 2, 4KV contact Level 2			
	WITHSTAND VOLTAGE ISOLATION RESISTANCE  EMC EMISSION  EMC IMMUNITY  FLICKER Note.6	BS EN/EN62384, GB19510.14, GB19510. Design refer to AS/NZS 61347-1, AS/NZS I/P-O/P:3.75KVAC I/P-O/P:>100M Ohms / 500VDC / 25°C / 70  Parameter Conducted Radiated Harmonic Current Voltage Flicker BS EN/EN61547  Parameter ESD Radiated EFT/Burst Surge Conducted Magnetic Field Voltage Dips and Interruptions PstLM ≤ 1, SVM ≤ 0.4	1, EAC TP TC 004, UL8750 (Type HL and Class 61347-2-13;  % RH  Standard  BS EN/EN55015 (CISPR15), GB/T 17743  BS EN/EN55015 (CISPR15), GB/T 17743  BS EN/EN61000-3-2, GB17625.1  BS EN/EN61000-3-3  Standard  BS EN/EN61000-4-2  BS EN/EN61000-4-2  BS EN/EN61000-4-5  BS EN/EN61000-4-6  BS EN/EN61000-4-8  BS EN/EN61000-4-8  BS EN/EN61000-4-8  BS EN/EN61000-4-11	P); CSA C22.2 No. 250.13-12 approved;  Test Level/Note Class C @load≥50%  Test Level/Note Level 3, 8KV air; Level 2, 4KV contact Level 2 Level 2 Level 2 Level 2 Level 2 Level 2 To% residual voltage for 10			
MC	WITHSTAND VOLTAGE ISOLATION RESISTANCE EMC EMISSION EMC IMMUNITY	BS EN/EN62384, GB19510.14, GB19510. Design refer to AS/NZS 61347-1, AS/NZS I/P-O/P:3.75KVAC I/P-O/P:>100M Ohms / 500VDC / 25°C / 70 Parameter Conducted Radiated Harmonic Current Voltage Flicker BS EN/EN61547 Parameter ESD Radiated EFT/Burst Surge Conducted Magnetic Field Voltage Dips and Interruptions	1, EAC TP TC 004, UL8750 (Type HL and Class 61347-2-13;  % RH  Standard  BS EN/EN55015 (CISPR15), GB/T 17743  BS EN/EN55015 (CISPR15), GB/T 17743  BS EN/EN61000-3-2, GB17625.1  BS EN/EN61000-3-3  Standard  BS EN/EN61000-4-2  BS EN/EN61000-4-2  BS EN/EN61000-4-5  BS EN/EN61000-4-6  BS EN/EN61000-4-8  BS EN/EN61000-4-8  BS EN/EN61000-4-8  BS EN/EN61000-4-11	P); CSA C22.2 No. 250.13-12 approved;  Test Level/Note Class C @load≥50%  Test Level/Note Level 3, 8KV air; Level 2, 4KV contact Level 2 Level 2 Level 2 Level 2 Level 2 Level 2 T0% residual voltage for 10 period, 0% residual voltage for 0.5 periods			
MC	WITHSTAND VOLTAGE ISOLATION RESISTANCE  EMC EMISSION  EMC IMMUNITY  FLICKER Note.6  MTBF  DIMENSION	BS EN/EN62384, GB19510.14, GB19510. Design refer to AS/NZS 61347-1, AS/NZS I/P-O/P:3.75KVAC I/P-O/P:>100M Ohms / 500VDC / 25°C / 70  Parameter Conducted Radiated Harmonic Current Voltage Flicker BS EN/EN61547  Parameter ESD Radiated EFT/Burst Surge Conducted Magnetic Field Voltage Dips and Interruptions  PstLM ≤ 1, SVM ≤ 0.4 3935.2 K hrs min. Telcordia SR-332 (Bell 114*44*32mm (L*W*H)	1, EAC TP TC 004, UL8750 (Type HL and Class 61347-2-13;  % RH  Standard  BS EN/EN55015 (CISPR15), GB/T 17743  BS EN/EN55015 (CISPR15), GB/T 17743  BS EN/EN61000-3-2, GB17625.1  BS EN/EN61000-3-3  Standard  BS EN/EN61000-4-2  BS EN/EN61000-4-2  BS EN/EN61000-4-5  BS EN/EN61000-4-6  BS EN/EN61000-4-8  BS EN/EN61000-4-8  BS EN/EN61000-4-8  BS EN/EN61000-4-11	P); CSA C22.2 No. 250.13-12 approved;  Test Level/Note Class C @load≥50%  Test Level/Note Level 3, 8KV air; Level 2, 4KV contact Level 2 Level 2 Level 2 Level 2 Level 2 Level 2 T0% residual voltage for 10 period, 0% residual voltage for 0.5 periods			
	WITHSTAND VOLTAGE ISOLATION RESISTANCE  EMC EMISSION  EMC IMMUNITY  FLICKER Note.6  MTBF DIMENSION PACKING	BS EN/EN62384, GB19510.14, GB19510. Design refer to AS/NZS 61347-1, AS/NZS I/P-O/P:3.75KVAC I/P-O/P:>100M Ohms / 500VDC / 25°C / 70  Parameter Conducted Radiated Harmonic Current Voltage Flicker BS EN/EN61547  Parameter ESD Radiated EFT/Burst Surge Conducted Magnetic Field Voltage Dips and Interruptions PstLM ≤ 1, SVM ≤ 0.4 3935.2 K hrs min. Telcordia SR-332 (Bell 114*44*32mm (L*W*H) 308g; 40pcs/13.32Kg/0.95CUFT	1, EAC TP TC 004, UL8750 (Type HL and Class 61347-2-13;  % RH  Standard  BS EN/EN55015 (CISPR15), GB/T 17743  BS EN/EN55015 (CISPR15), GB/T 17743  BS EN/EN61000-3-2, GB17625.1  BS EN/EN61000-3-3  Standard  BS EN/EN61000-4-2  BS EN/EN61000-4-2  BS EN/EN61000-4-5  BS EN/EN61000-4-6  BS EN/EN61000-4-8  BS EN/EN61000-4-8  BS EN/EN61000-4-8  BS EN/EN61000-4-11	Test Level/Note Class C @load≥50%  Test Level/Note Level 3, 8KV air; Level 2, 4KV contact Level 2 Level 2 Level 2 Level 2 Level 2 To% residual voltage for 10 period, 0% residual voltage for 0.5 periods			

 $\label{lem:product_limit} \begin{tabular}{ll} \verb|WProduct Liability Disclaimer: For detailed information, please refer to $https://www.meanwell.com/serviceDisclaimer.aspx \end{tabular}$ 

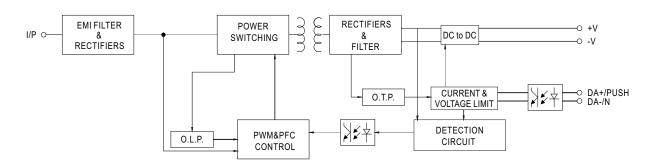


## **SPECIFICATION**

MODEL		XLN-40-H-				
_	OPEN CIRCUIT	60V				
	VOLTAGE Note.2	1050m A				
	DEFAULT CURRENT CURRENT ADJ.RANGE	1050mA				
	(BY NFC)	0.6~1.4A				
OUTPUT	CONSTANT CURRENT	O. EAV				
OUIFUI	REGION Note.3	9~54V				
	RATED POWER Note.4	40W				
	CURRENT RIPPLE	<4%(@full load)				
	CURRENT TOLERANCE	±5%				
	DIMMING RANGE	0~100%				
	SETUP, RISE TIME Note.5,6	500ms, 100ms/230VAC, 1000ms, 100ms/115VAC				
	VOLTAGE RANGE	100 ~ 305VAC 141 ~ 400VDC				
	FREQUENCY RANGE	47 ~ 63Hz PF≥0.97/115VAC, PF≥0.95/230VAC, PF≥0.92/277VAC@full load				
	POWER FACTOR	PP을 0.97/115VAC, PP을 0.93/250VAC, PP을 0.92/27 VAC@Idit load (Please refer to "POWER FACTOR (PF) CHARACTERISTIC" section)				
	TOTAL LIA DIMONIO DIOTORTION	THD<10%(@load≥50%/230VAC; @load≥75%/277VAC), THD<15%(@load≥50%/115VAC)				
	TOTAL HARMONIC DISTORTION	(Please refer to "TOTAL HARMONIC DISTORTION(THD)" section)				
INPUT	EFFICIENCY (Typ.) Note.7	88%				
	AC CURRENT	0.5A / 115VAC				
	INRUSH CURRENT(Typ.)	COLD START 10A(twidth=100µs measured at 50% Ipeak) at 230VAC; Per NEMA 410				
	MAX. No. of PSUs on 16A	51 units (circuit breaker of type B) / 51 units	(circuit breaker of type C) at 230VAC			
	CIRCUIT BREAKER	` '				
	LEAKAGE CURRENT	<0.75mA / 277VAC				
	STANDBY POWER CONSUMPTION Note.8	Standby power consumption<0.5W(Dimming	g off)			
	SHORT CIRCUIT	Hiccup mode, recovers automatically after fa	ault condition is removed			
ROTECTION	OTTOR I GIRGUII		level. Recovers automatically after fault condition is remo	oved.		
KOILCIION	OVER TEMPERATURE	,, ,	; Stage 2: De-rating to 50% loading. Recovers automaticall			
	WORKING TEMP.	Tcase=-25 ~ 90°C (Please refer to " OUTPU	· · · · · · · · · · · · · · · · · · ·	,		
	MAX. CASE TEMP.	Tcase=90°C	,			
NVIDONMENT	WORKING HUMIDITY	20 ~ 90% RH non-condensing				
ENVIRONMENT	STORAGE TEMP., HUMIDITY	-40 ~ +80°C, 10 ~ 95% RH				
	TEMP. COEFFICIENT	±0.03%/°C (0 ~ 50°C)				
	VIBRATION	$10 \sim 500$ Hz, 2G 10min./1cycle, period for 60	min. each along X, Y, Z axes			
	SAFETY STANDARDS	ENEC BS EN/EN61347-1, BS EN/EN61347-2-13(EL) appendix J suitable for emergency installations(DC input 176-280VDC); BS EN/EN62384, GB19510.14, GB19510.1, EAC TP TC 004,UL8750(Type HL and Class P); CSA C22.2 No. 250.13-12 approved; Design refer to AS/NZS 61347-1, AS/NZS 61347-2-13;				
	DALI STANDARDS	Comply with IEC62386-101,102,207				
	WITHSTAND VOLTAGE	I/P-O/P:3.75KVAC				
	ISOLATION RESISTANCE	I/P-O/P:>100M Ohms / 500VDC / 25°C/ 70% RH				
		Parameter	Standard	Test Level/Note		
		Conducted	BS EN/EN55015(CISPR15) ,GB/T 17743			
	EMC EMISSION	Radiated	BS EN/EN55015(CISPR15),GB/T 17743			
		Harmonic Current	BS EN/EN61000-3-2, GB17625.1	Class C @load≥50%		
SAFETY &		Voltage Flicker	BS EN/EN61000-3-3			
EMC		BS EN/EN61547		•		
		Parameter	Standard	Test Level/Note		
		ESD	BS EN/EN61000-4-2	Level 3, 8KV air ; Level 2, 4KV contact		
		Radiated	BS EN/EN61000-4-3	Level 2		
	EMC IMMUNITY	EFT/Burst	BS EN/EN61000-4-3	Level 2		
		Surge	BS EN/EN61000-4-5	Level 3, 1KV/Line-Line		
		Conducted Magnetic Field	BS EN/EN61000-4-6	Level 2		
		Magnetic Field	BS EN/EN61000-4-8	Level 2		
		Voltage Dips and Interruptions	BS EN/EN61000-4-11	70% residual voltage for 10 period, 0% residual voltage for 0.5 periods		
	FLICKED	Dot! M < 1 CVM < 0.4		poriod, 070 residual voltage for 0.0 periods		
	MTBF Note.9	PstLM ≤ 1, SVM ≤ 0.4  3035 2 K hrs min Tolcordia SP 332 (Rolls)	2010): 342 0 Khre min MII HDBV 247E (25°C)			
OTHERS	DIMENSION	3935.2 K hrs min. Telcordia SR-332 (Bellcore); 342.9 Khrs min. MIL-HDBK-217F (25°ℂ)  114*44*32mm (L*W*H)				
}	PACKING	311g; 40pcs/13.44Kg/0.95CUFT				
NOTE	2. Output hiccups under no-load cord. 3. Please refer to "DRIVER METHO 4. De-rating may be need under low 5. Length of set up time is measure 6. Based on IEC 62386-101/102 DA power on function, otherwise the 7. Efficiency is measured at 800mA/ 8. Standby power consumption is m 9. Flicker is measured at full load wi 10. The driver is considered as a co installation, the final equipment ( as available on https://www.mee 11. RCM is on a voluntary basis. No 12. This series meets the typical life	IDS OF LED MODULE":  input voltages. Please refer to "STATIC CH d at first cold start. Turning ON/OFF the driv. LI power on timing and interruption regulatic startup time will be higher than 0.5 second. 50V by NFC. easured at 230VAC. th the light source provided by MEAN WELL mponent that will be operated in combination manufacturers must re-qualify EMC Directive anwell.com//Upload/PDF/EML_statement_en. in IC classification independent LED control respectancy of >50,000 hours of operation w	ARACTERISTIC" sections for details.  er may lead to increase of the set up time.  ons, the set up time needs to test with a DALI controller w   n with final equipment. Since EMC performance will be af on the complete installation again.	fected by the complete		



## ■ BLOCK DIAGRAM

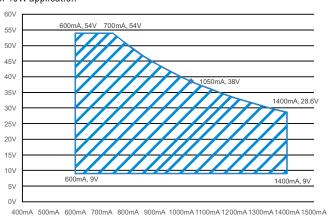


# ■ DRIVING METHODS OF LED MODULE

### 

## O XLN-40-H

### For 40W application



# ■ CONSTANT POWER TABLE

 $XLN-40-H\ is\ a\ multiple-stage\ constant\ power\ driver,\ selection\ of\ output\ current\ through\ NFC\ setting\ is\ exhibited\ below.$ 

Vo	lo
9~54V	600mA
9~54V	700mA
9~50V	800mA
9~45V	900mA
9~38V	1050mA(default)
9~33V	1200mA
9~31V	1300mA
9~29V	1400mA

Note: 1. The operating voltage range which show on this table is recommend to use.



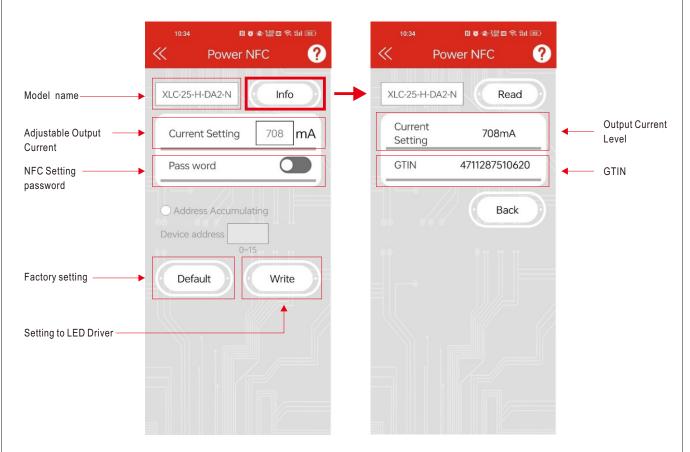
## ■ NFC Function Description

- 1. The output current of the NFC Mode LED driver can be adjusted using NFC via the mobile APP. Operation Instruction:
- Compatible phone
  - Install an NFC-compatible smart mobile device or phone with AndroidTM 4.1 or IOS12 updates.
- Steps for setting output current via NFC
- 1. Download Meanwell APP on mobile device or mobile phone, and enable NFC function.
- 2. Check the NFC antenna position of the mobile phone please.

  3. Enter Meanwell APP ->Top left menu –Installation Manual/APP->PowerNFC, approach the LED driver NFC sensing position and perform sensing.
- 4. APP displays the functional parameters, and the relevant parameters are modified as required.
- 5. Tap the APP write button and quickly move the phone antenna close to the NFC sensing position of the LED driver.
- 6. The write completes when the mobile phone displays "Success".

## APP Function Description

#### **※** APP Interface:



• To be used through APP available on Apple Store and Google Play Store for iOS and Android. Search: MEAN WELL on





Note: 1. Current accuracy: the numerical error between the set current and the actual current is within 2%. 2. Please turn off the input power supply to the LED driver when using NFC function.

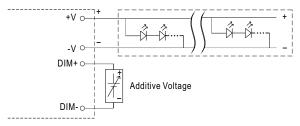


## **■ DIMMING OPERATION**

B type

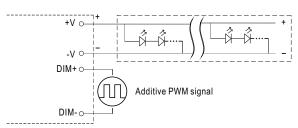
### % 3 in 1 dimming function

- Output constant current level can be adjusted by applying one of the three methodologies between DIM+ and DIM-:
   0 ~ 10VDC, or 10V PWM signal or resistance.
- Direct connecting to LEDs is suggested. It is not suitable to be used with additional drivers.
- Dimming source current from power supply: 100  $\mu$  A (typ.)



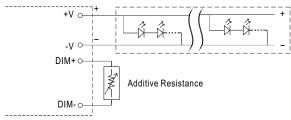
"DO NOT connect "DIM- to -V"

O Applying additive 10V PWM signal (frequency range 300Hz~3KHz):

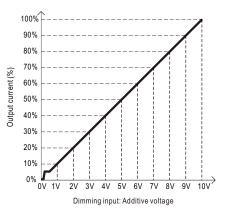


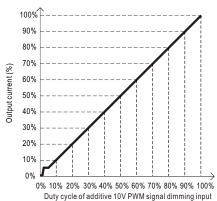
"DO NOT connect "DIM- to -V"

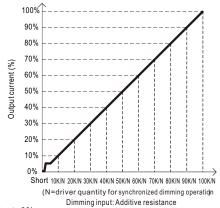
 $\bigcirc$  Applying additive resistance: 0~100k  $\Omega$ 



"DO NOT connect "DIM- to -V"







Note: 1. Min. dimming level is about 8% and the output current is not defined when 0%< Iout<8%.

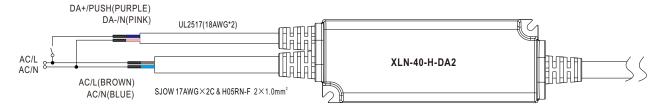
2. The output current could drop down to 0% when dimming input is about 0kΩ or 0Vdc, or 10V PWM signal with 0% duty cycle.

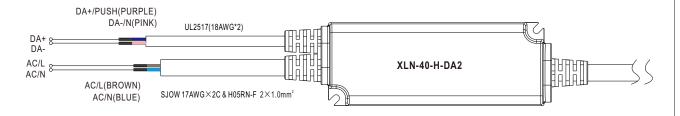


# ■ DIMMING OPERATION

### O DA2 type (DALI-2 digital dimming function)

## **※** Input wiring diagram





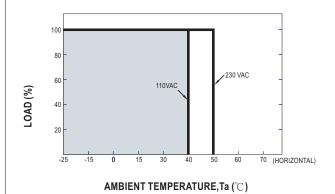
## ★PUSH dimming (primary side)

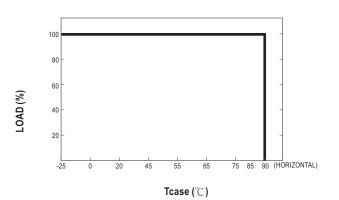
- The factory default dimming level is at 100%.
- If the push action lasts less than 0.05 sec., it will not lead to a change for the status of the driver.
  Up to 10 drivers can perform the PUSH dimming at the same time when utilizing one common push button.
- The maximum length of the cable from the push button to the last driver is 20 meters.

Action	Action duration	Function
Short Push	0.1~1s	Turn ON-OFF the driver
Double Click	Click twice in 1.5s	Set up the dimming level to 100%
Long Push	1.5~10s	Every Long Push changes the dimming direction, dimming up or down

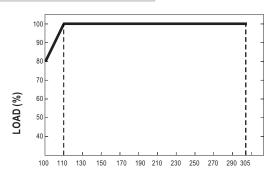


# ■ OUTPUT LOAD vs TEMPERATURE

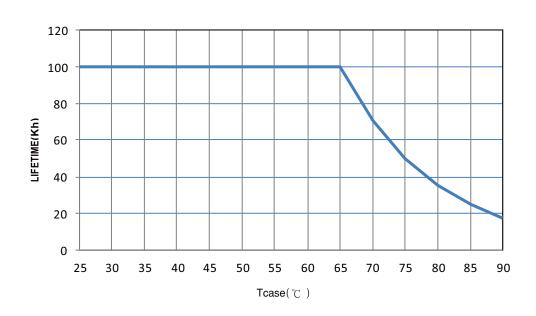




## ■ STATIC CHARACTERISTIC



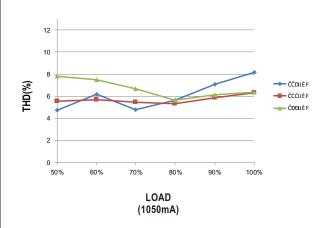
# ■ LIFE TIME

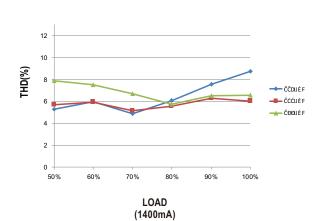




# ■ TOTAL HARMONIC DISTORTION (THD)

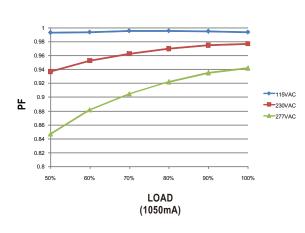
 $\times$  XLN-40-H Model, Tcase at 75 $^{\circ}$ C

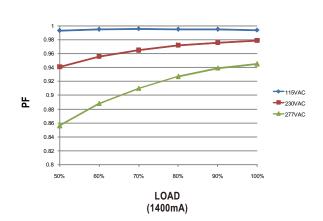




## **■ POWER FACTOR (PF) CHARACTERISTIC**

XLN-40-H Model, Tcase at 75°
 C





## **■** EFFICIENCY vs LOAD

XLN-40 series possess superior working efficiency that up to 88% can be reached in field applications.

XLN-40-H Model, Tcase at 75<sup>°</sup>
 C

