Наличие и актуальные цены на

XLC-40-12-S

https://www.mean-well.ru/store/XLC-40-12-S/

40W Multiple-Stage Constant Power/Constant Voltage LED Driver XLC-40 series

NFC

User's Manual

XLC-40-S Series
(Independent type)

XLC-40 Series
(Built-in type)

IS 15885 NOTE.14

c UL us LISTED CLASS P LED DRIVER 4HB3 E334687

(for XLC-40-S series)

DC Input:176-280VDC

Note.11

Features

- Constant power mode output with multiple stage selectable by dip switch or 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
- Meet emergency lighting (EL) function application
- 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

XLC-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 dip switch or NFC setting. Thanks to high efficiency up to 88%, it is able to operate for -25℃~90℃ case temperature under free air convection. XLC-40 is designed based on latest safety regulations with 3 in 1 and DALI-2 dimming. XLC-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

XLC - 40 - H - □ □ □

- Current setting (Blank: DIP Switch; N: NFC setting)
- Casing type: { Blank: without strain-relief (Built-in type); S: with strain-relief (Independent type) }
- Function options (Blank/B/DA2)
- Rated output voltage (12V/24V or H-type)
- Rated wattage
- Series name

Type	Function	Note
Blank	H type output current selectable by DIP-switch or NFC setting	In stock
	12, 24V Constant voltage output	
B	H type output current selectable by DIP-switch or NFC with 3 in 1 dimming	
DA2	H type output current selectable by DIP-switch or NFC with DALI-2 dimming	

Note: 1. 12V/24V without dimming function.
2. NFC current setting is available for XLC-40-H type only.

SPECIFICATION

MODEL		XLC-40-12-□	XLC-40-24-□
OUTPUT	RATED VOLTAGE	12V	24V
	RATED CURRENT	3.4A	1.7A
	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%	
	SETUP, RISE TIME Note.5	500ms, 100ms/230VAC, 1000ms, 100ms/115VAC	
INPUT	VOLTAGE RANGE	100 ~ 305VAC 141 ~ 400VDC	
	FREQUENCY RANGE	47 ~ 63Hz	
	POWER FACTOR	PF≧0.97/115VAC, PF≧0.95/230VAC, PF≧0.92/277VAC@full load (Please refer to "POWER FACTOR (PF) CHARACTERISTIC" section)	
	TOTAL HARMONIC DISTORTION	THD<10%(@load≧50%/230VAC; @load≧75%/277VAC), THD<15%(@load≧50%/115VAC) (Please refer to "TOTAL HARMONIC DISTORTION(THD)" section)	
	EFFICIENCY (Typ.)	86%	88%
	AC CURRENT	0.5A / 115VAC 0.25A / 230VAC 0.2A/277VAC	
	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	
	LEAKAGE CURRENT	<0.75mA / 277VAC	
PROTECTION	OVER LOAD	105 ~ 220% rated output power	
		Protection type:Hiccup mode , recovers automatically after fault condition is removed	
	SHORT CIRCUIT	Hiccup mode, recovers automatically after fault condition is removed	
	OVER VOLTAGE	13 ~ 16V	26 ~ 32V
		Shut down and latch off o/p voltage, re-power on to recover	
	OVER TEMPERATURE	Shut down output voltage, recovers automatically after fault condition is removed	
ENVIRONMENT	WORKING TEMP.	Tcase=-25 ~ 90℃ (Please refer to " OUTPUT LOAD vs TEMPERATURE" section)	
	MAX. CASE TEMP.	Tcase=90℃	
	WORKING HUMIDITY	20 ~ 90% RH non-condensing	
	STORAGE TEMP., HUMIDITY	-40 ~ +80℃, 10 ~ 95% RH	
	TEMP. COEFFICIENT	±0.03%/℃ (0 ~ 50℃)	
	VIBRATION	10 ~ 500Hz, 2G 10min./1cycle, period for 60min. each along X, Y, Z axes	
SAFETY & EMC	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, BIS IS15885(Part2/Sec13)(NOTE 14), GB/T19510.1, GB/T19510.213, EAC TP TC 004,UL8750(Class P); CSA C22.2 No. 250.13-12 approved; Design refer to AS/NZS 61347-1, AS/NZS 61347-2-13	
	WITHSTAND VOLTAGE	I/P-O/P:3.75KVAC	
	ISOLATION RESISTANCE	I/P-O/P:>100M Ohms / 500VDC / 25℃/ 70% RH	
	EMC EMISSION	**Parameter**	**Standard** / **Test Level/Note**
		Conducted	BS EN/EN55015(CISPR15) ,GB/T 17743 / -----
		Radiated	BS EN/EN55015(CISPR15) ,GB/T 17743 / -----
		Harmonic Current	BS EN/EN61000-3-2 , GB17625.1 / Class C @load≥50%
		Voltage Flicker	BS EN/EN61000-3-3 / -----
	EMC IMMUNITY	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
		EFT/Burst	BS EN/EN61000-4-4 / Level 2
		Surge	BS EN/EN61000-4-5 / Level 3, 1KV/Line-Line
		Conducted	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
OTHERS	FLICKER Note.6	PstLM ≤ 1, SVM ≤ 0.4	
	MTBF	3935.2 K hrs min. Telcordia SR-332 (Bellcore) ; 342.9 Khrs min. MIL-HDBK-217F (25℃)	
	DIMENSION	147*40*32mm,107*40*32mm (L*W*H)	
	PACKING	190g; 60pcs/12.6Kg/0.58CUFT(for blank type); 207g; 50pcs/11.5Kg/0.57CUFT(for S-type)	

NOTE

1. All parameters NOT specially mentioned are measured at 230VAC input, rated current and 25℃ of ambient temperature.
2. De-rating may be need under low input voltages. Please refer to "STATIC CHARACTERISTIC" sections for details.
3. Ripple & noise are measured at 20MHz of bandwidth by using a 12" twisted pair-wire terminated with a 0.1uF & 47uF parallel capacitor.
4. Tolerance: includes set up tolerance, line regulation and load regulation.
5. Length of set up time is measured at first cold start. Turning ON/OFF the driver may lead to increase of the set up time.
6. Flicker is measured at full load with the light source provided by MEAN WELL.
7. To fulfill requirement of the latest ErP regulation for lighting fixtures, this LED driver can only be used behind a switch without permanently connected to the mains.
8. The driver is considered as a component that will be operated in combination with final equipment. Since EMC performance will be affected by the complete installation, the final equipment manufacturers must re-qualify EMC Directive on the complete installation again. (as available on https://www.meanwell.com//Upload/PDF/EMI_statement_en.pdf)
9. The ambient temperature de-rating of 3.5℃/1000m with fanless models and 5℃/1000m with fan models for operating altitude higher than 2000m(6500ft).
10. This series meets the typical life expectancy of >50,000 hours of operation when Tcase, particularly (tc) point (or TMP, per DLC), is about 75℃ or less.
11. For XLC-S series: RCM is on a voluntary basis. Non IC classification Independent LED control gear is not suitable for residential installations. For XLC(except -S) series: RCM is on a voluntary basis and meets relevant IEC or AS/NZS standards complying with AS/NZS 4417.1.
12. Products sourced from the Americas regions may not have the CCC/PSE/BIS/KC logo. Please contact your MEAN WELL sales for more information.
13. For more information, please contact with MEAN WELL sales.
14. Products sourced from the China regions and some models sourced from India may not have the BIS logo,please refer to BIS certificate for details and contact your MEAN WELL sales for more information.

※Product Liability Disclaimer: For detailed information, please refer to https://www.meanwell.com/serviceDisclaimer.aspx

SPECIFICATION

MODEL		XLC-40-H- □ □ □		
OUTPUT	OPEN CIRCUIT VOLTAGE Note.2	60V		
	DEFAULT CURRENT	1050mA		
	CURRENT ADJ.RANGE (BY DIP SWITCH OR NFC)	0.6~1.4A		
	CONSTANT CURRENT 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		
INPUT	VOLTAGE RANGE	100 ~ 305VAC 141 ~ 400VDC		
	FREQUENCY RANGE	47 ~ 63Hz		
	POWER FACTOR	PF≧0.97/115VAC, PF≧0.95/230VAC, PF≧0.92/277VAC@full load (Please refer to "POWER FACTOR (PF) CHARACTERISTIC" section)		
	TOTAL HARMONIC DISTORTION	THD<10%(@load≧50%/230VAC; @load≧75%/277VAC), THD<15%(@load≧50%/115VAC) (Please refer to "TOTAL HARMONIC DISTORTION(THD)" section)		
	EFFICIENCY (Typ.) Note.7	88%		
	AC CURRENT	0.5A / 115VAC 0.25A / 230VAC 0.2A/277VAC		
	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		
	LEAKAGE CURRENT	<0.75mA / 277VAC		
	STANDBY POWER CONSUMPTION Note.8	Standby power consumption<0.5W(Dimming off)		
PROTECTION	SHORT CIRCUIT	Hiccup mode, recovers automatically after fault condition is removed		
	OVER TEMPERATURE	Blank & B type: De-rating to lowest output level. Recovers automatically after fault condition is removed.		
		DA2 type: Stage 1: De-rating to 75% loading; Stage 2: De-rating to 50% loading. Recovers automatically after fault condition is removed.		
ENVIRONMENT	WORKING TEMP.	Tcase=-25 ~ 90℃ (Please refer to " OUTPUT LOAD vs TEMPERATURE" section)		
	MAX. CASE TEMP.	Tcase=90℃		
	WORKING HUMIDITY	20 ~ 90% RH non-condensing		
	STORAGE TEMP., HUMIDITY	-40 ~ +80℃, 10 ~ 95% RH		
	TEMP. COEFFICIENT	±0.03%/℃ (0 ~ 50℃)		
	VIBRATION	10 ~ 500Hz, 2G 10min./1cycle, period for 60min. each along X, Y, Z axes		
SAFETY & EMC	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, BIS IS15885(Part2/Sec13)(NOTE 14), GB/T19510.1, GB/T19510.213, EAC TP TC 004,UL8750(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℃/ 70% RH		
	EMC EMISSION	**Parameter**	**Standard**	**Test Level/Note**
		Conducted	BS EN/EN55015(CISPR15) ,GB/T 17743	-----
		Radiated	BS EN/EN55015(CISPR15) ,GB/T 17743	-----
		Harmonic Current	BS EN/EN61000-3-2 , GB17625.1	Class C @load≥50%
		Voltage Flicker	BS EN/EN61000-3-3	-----
	EMC IMMUNITY	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
		EFT/Burst	BS EN/EN61000-4-4	Level 2
		Surge	BS EN/EN61000-4-5	Level 3, 1KV/Line-Line
		Conducted	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
OTHERS	FLICKER Note.9	PstLM ⩽ 1, SVM ⩽ 0.4		
	MTBF	3935.2 K hrs min. Telcordia SR-332 (Bellcore) ; 342.9 Khrs min. MIL-HDBK-217F (25℃)		
	DIMENSION	147*40*32mm,107*40*32mm (L*W*H)		
	PACKING	193g; 60pcs/12.58Kg/0.58CUFT(for blank type); 210g; 50pcs/11.5Kg/0.57CUFT(for S-type)		

NOTE

1. All parameters NOT specially mentioned are measured at 230VAC input, rated current and 25℃ of ambient temperature.
2. Output hiccups under no-load condition.
3. Please refer to "DRIVER METHODS OF LED MODULE".
4. De-rating may be need under low input voltages. Please refer to "STATIC CHARACTERISTIC" sections for details.
5. Length of set up time is measured at first cold start. Turning ON/OFF the driver may lead to increase of the set up time.
6. Based on IEC 62386-101/102 DALI power on timing and interruption regulations, the set up time needs to test with a DALI controller which can support for DALI power on function, otherwise the startup time will be higher than 0.5 second.
7. Efficiency is measured at 800mA/50V output set by dip-switch or NFC.
8. Standby power consumption is measured at 230VAC.
9. Flicker is measured at full load with the light source provided by MEAN WELL.
10. The driver is considered as a component that will be operated in combination with final equipment. Since EMC performance will be affected by the complete installation, the final equipment manufacturers must re-qualify EMC Directive on the complete installation again. (as available on https://www.meanwell.com//Upload/PDF/EMI_statement_en.pdf)
11. For XLC-S series: RCM is on a voluntary basis. Non IC classification Independent LED control gear is not suitable for residential installations. For XLC(except -S) series: RCM is on a voluntary basis and meets relevant IEC or AS/NZS standards complying with AS/NZS 4417.1
12. The ambient temperature de-rating of 3.5℃/1000m with fanless models and 5℃/1000m with fan models for operating altitude higher than 2000m(6500ft).
13. This series meets the typical life expectancy of >50,000 hours of operation when Tcase, particularly tc point (or TMP, per DLC), is about 75℃ or less.
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17. For more information, please contact with MEAN WELL sales.

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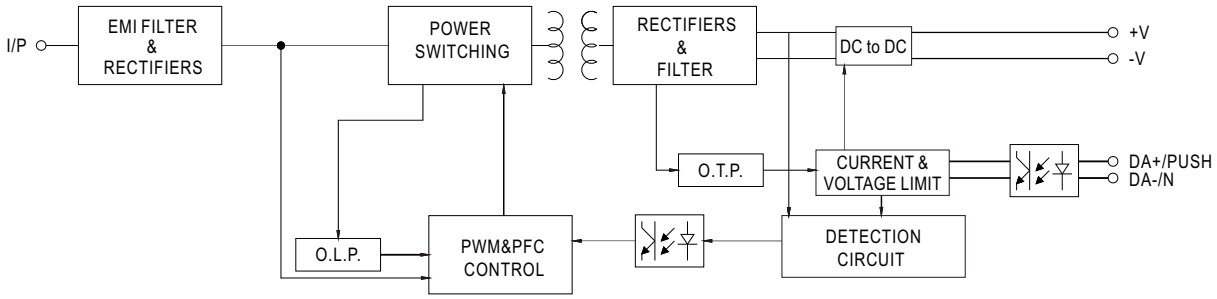
■ BLOCK DIAGRAM

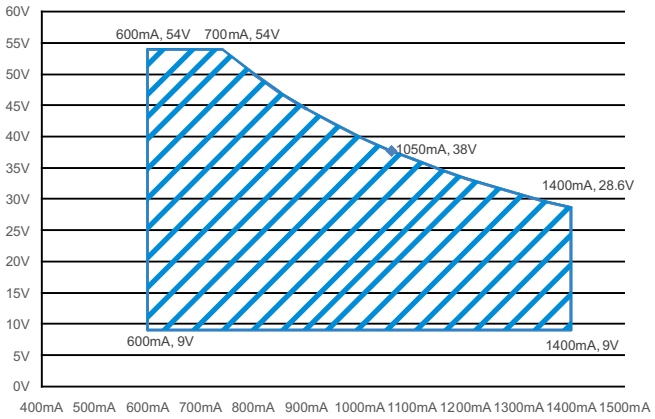


■ DRIVING METHODS OF LED MODULE

※ I-V Operating Area

◎ **XLC-40-H**

For 40W application



■ CONSTANT POWER TABLE

XLC-40-H is a multiple-stage constant power driver, selection of output current through DIP switch or NFC setting is exhibited below.

Vo	DIP S.W / Io	1	2	3
9~54V	600mA	----	----	----
9~54V	700mA	----	----	ON
9~50V	800mA	----	ON	----
9~45V	900mA	----	ON	ON
9~38V	1050mA(default)	ON	----	----
9~33V	1200mA	ON	----	ON
9~31V	1300mA	ON	ON	----
9~29V	1400mA	ON	ON	ON

Note: 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

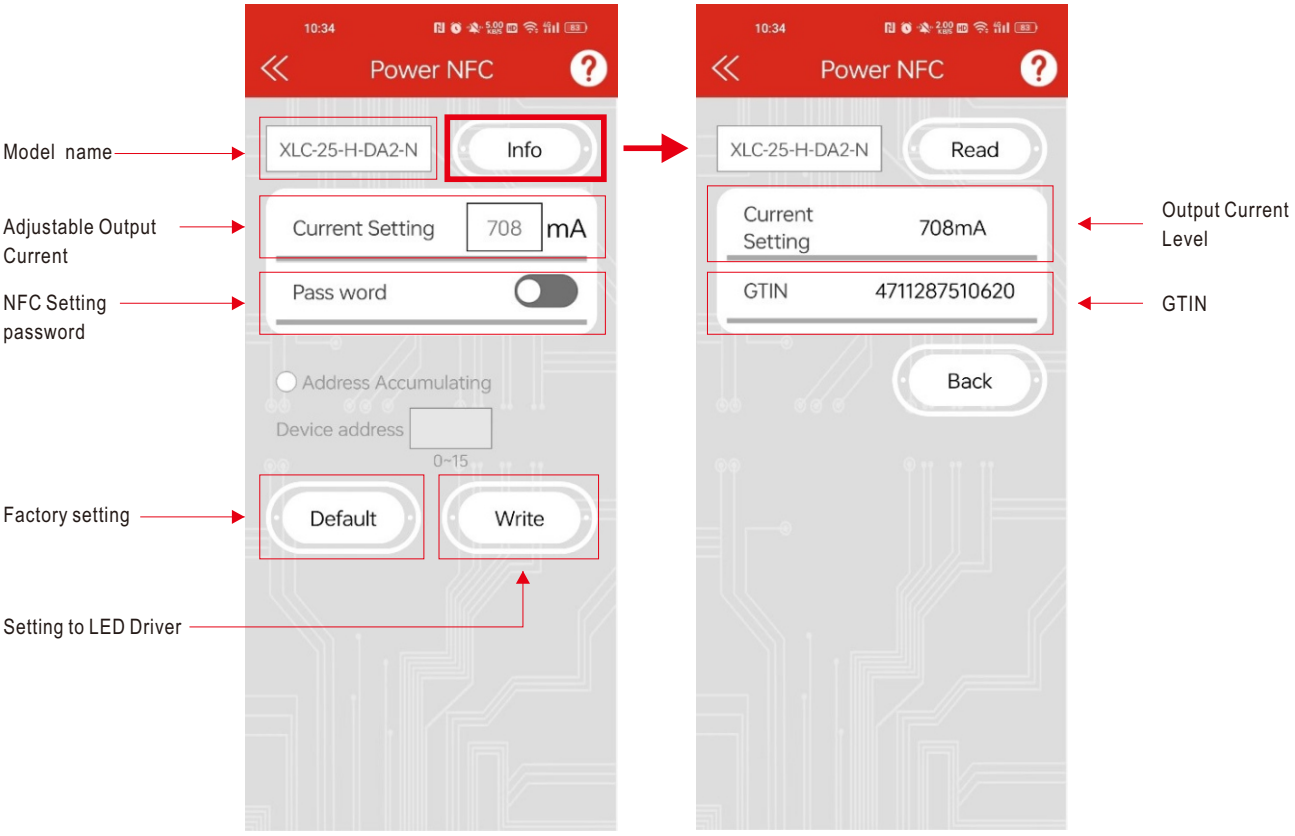
Install an NFC-compatible smart mobile device or phone with AndroidTM 4.1 or IOS12 updates.

●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

Download on the App Store

ANDROID APP ON Google play

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.

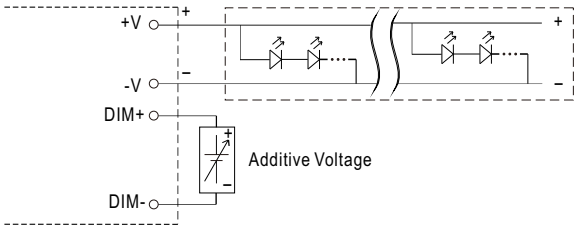
■ DIMMING OPERATION

◎ **B type**

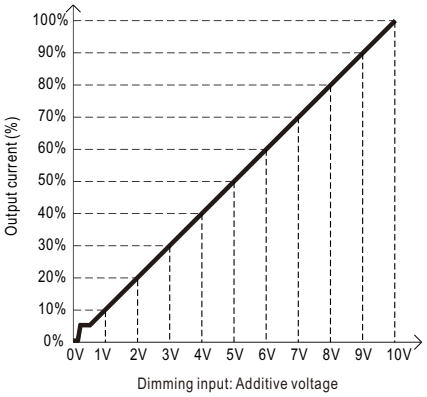
※ **3 in 1 dimming function**

- 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 μA (typ.)

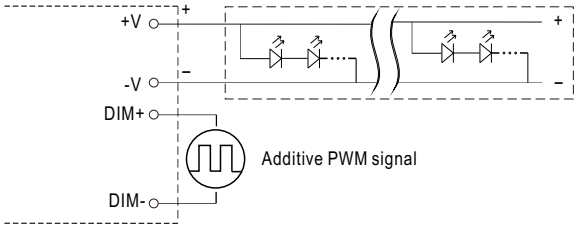
◎ Applying additive 0 ~ 10VDC



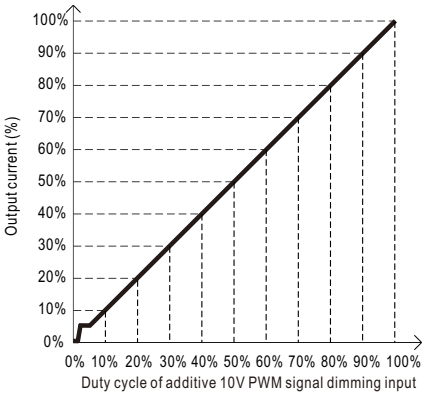
"DO NOT connect "DIM- to -V"



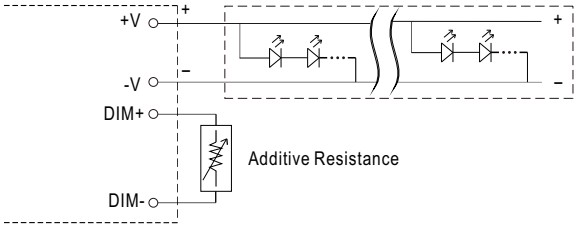
◎ Applying additive 10V PWM signal (frequency range 300Hz~3KHz):



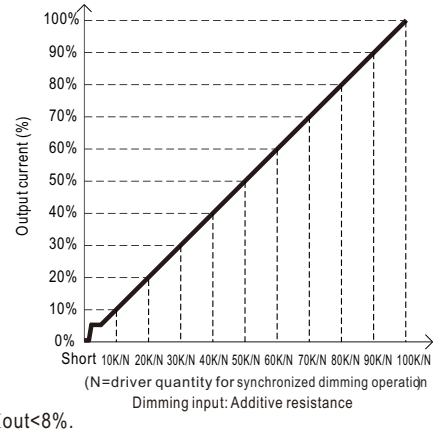
"DO NOT connect "DIM- to -V"



◎ Applying additive resistance: 0~100kΩ



"DO NOT connect "DIM- to -V"

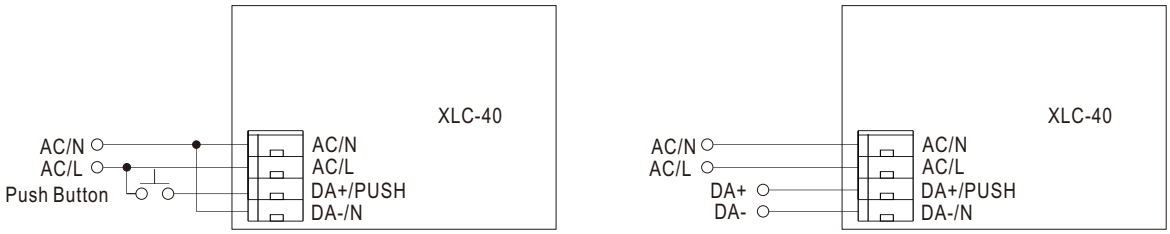


Note : 1. Min. dimming level is about 8% and the output current is not defined when 0%< Iout<8%.
2. The output current could drop down to 0% when dimming input is about 0kΩ or 0Vdc, or 10V PWM signal with 0% duty cycle.

■ DIMMING OPERATION

◎ **DA2 type (DALI-2 digital dimming function)**

※Input wiring diagram

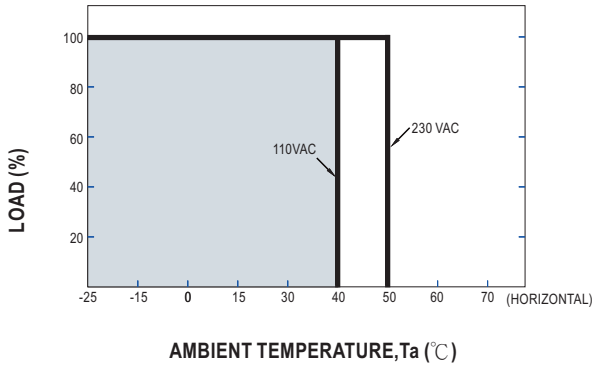


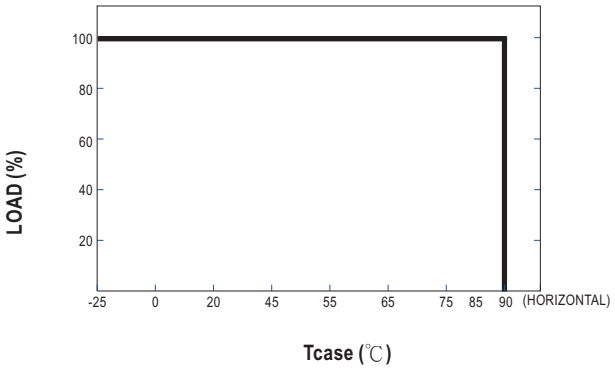
※PUSH dimming (primary side)

- 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.

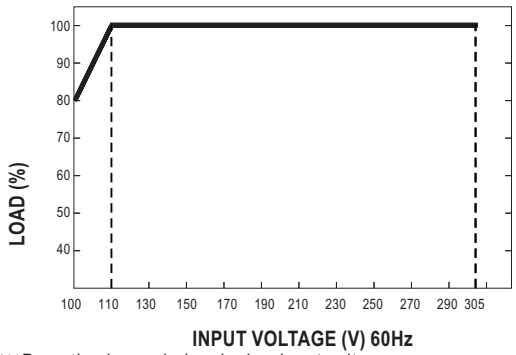
Action	Action duration	Function
Short Push	0.1~1s	Turn ON-OFF the driver
Double Click	Click twice in 1.5s	Set up the dimming level to 100%
Long Push	1.5~10s	Every Long Push changes the dimming direction, dimming up or down

■ OUTPUT LOAD vs TEMPERATURE



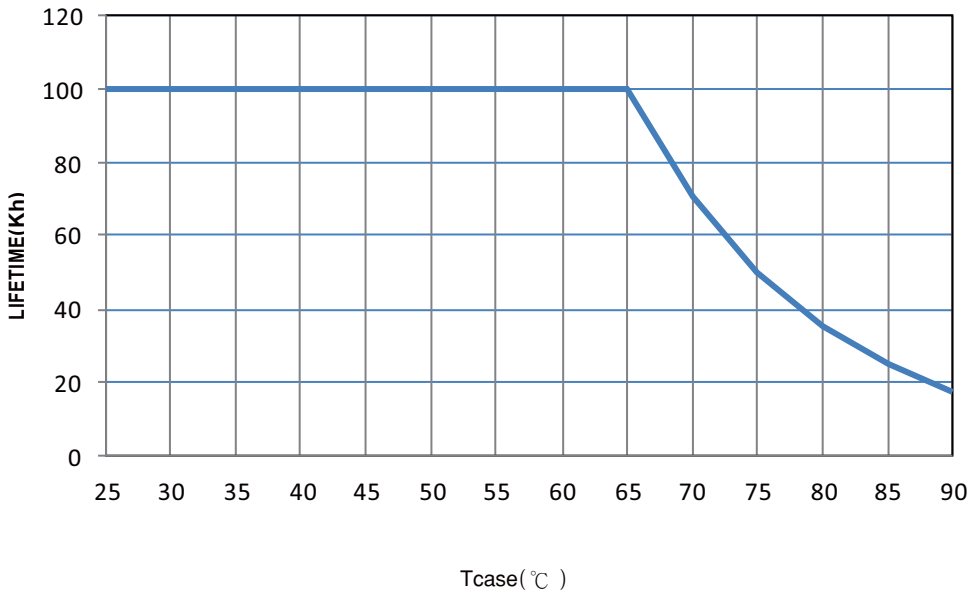


■ STATIC CHARACTERISTIC



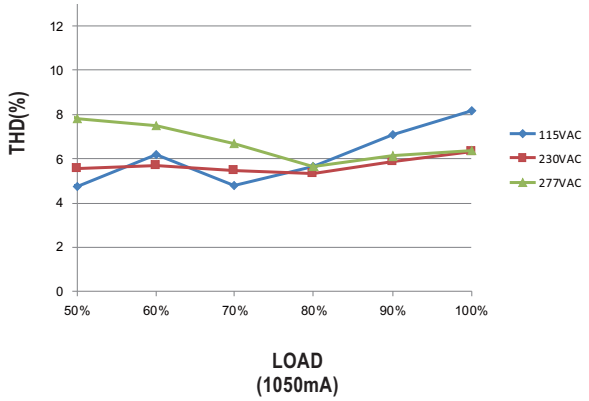
※De-rating is needed under low input voltage.

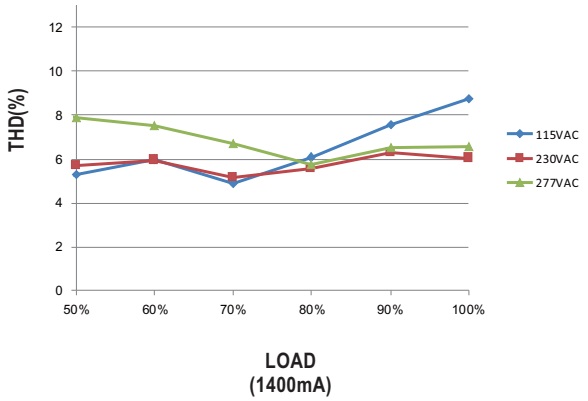
■ LIFE TIME



■ TOTAL HARMONIC DISTORTION (THD)

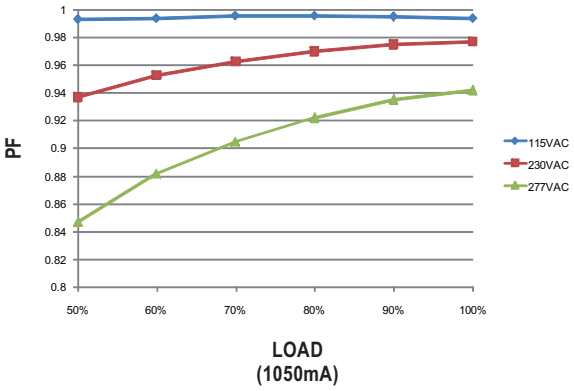
※ XLC-40-H Model, Tcase at 75℃

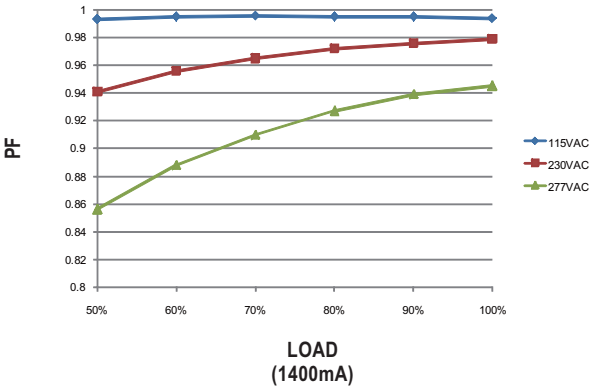




■ POWER FACTOR (PF) CHARACTERISTIC

※ XLC-40-H Model, Tcase at 75℃

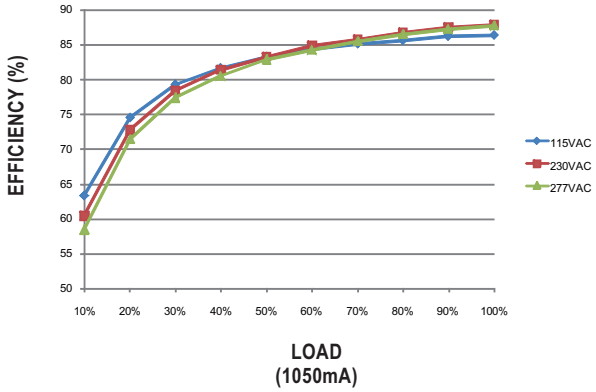


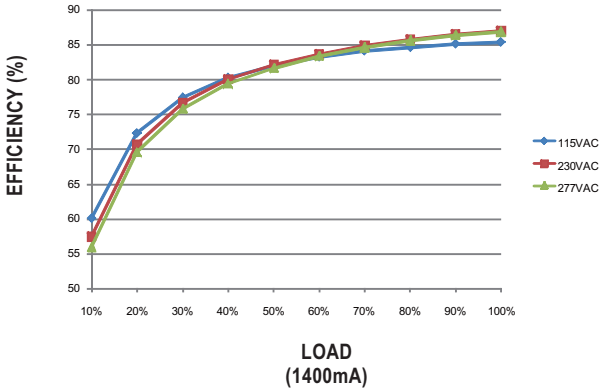


■ EFFICIENCY vs LOAD

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

※ XLC-40-H Model, Tcase at 75℃



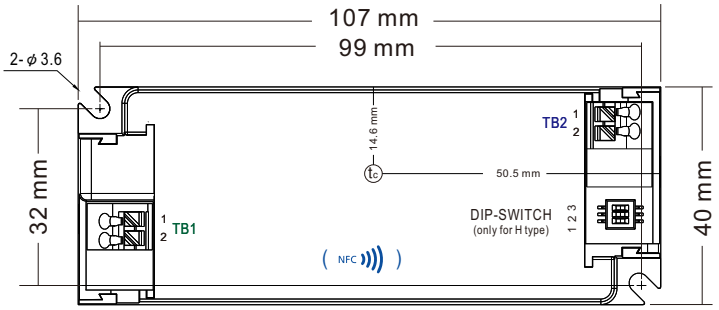


■ MECHANICAL SPECIFICATION

(XLC-40 Built-in Type)

Case No.XLC-25 Unit:mm Tolerance:±1

※ Blank type



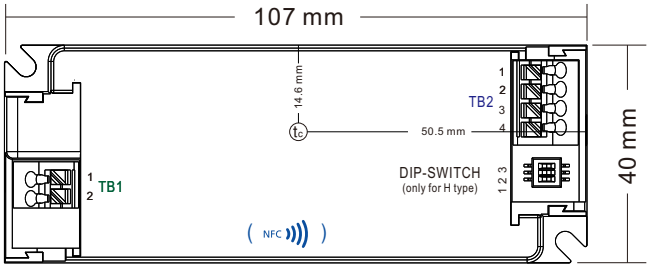
※ Terminal Pin No. Assignment(TB1)

Pin No.	Assignment
1	AC/N
2	AC/L

※ Terminal Pin No. Assignment(TB2)

Pin No.	Assignment
1	+V
2	-V

※ B type



※ Terminal Pin No. Assignment(TB1)

Pin No.	Assignment
1	AC/N
2	AC/L

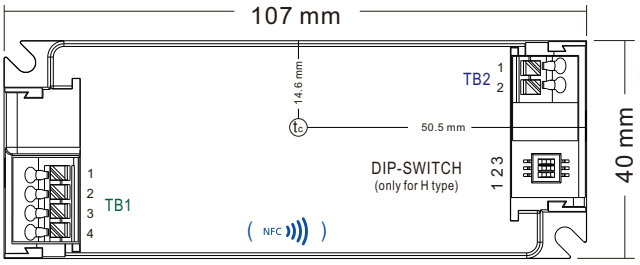
※ Terminal Pin No. Assignment(TB2)

Pin No.	Assignment
1	+V
2	-V
3	DIM+
4	DIM-

※ DA2 type

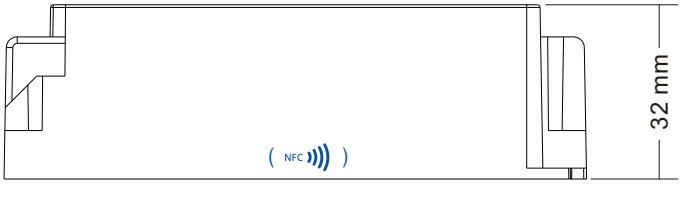
※ Terminal Pin No. Assignment(TB1)

Pin No.	Assignment
1	AC/N
2	AC/L
3	DA+/PUSH
4	DA-/N

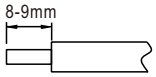


※ Terminal Pin No. Assignment(TB2)

Pin No.	Assignment
1	+V
2	-V

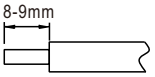


TB1 wiring:



☐ **0.5-1.50mm²**

TB2 wiring:



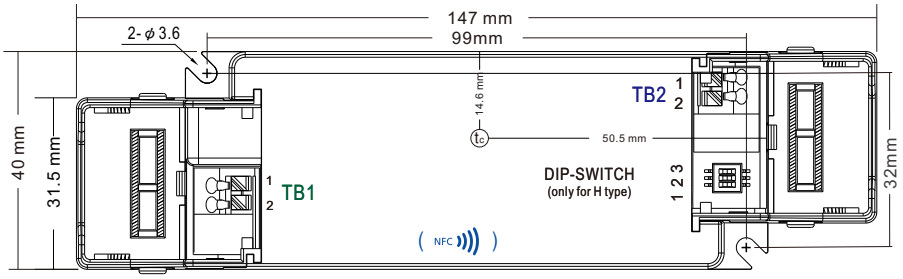
☐ **0.5-1.50mm²**

Item	Order No.	Quantity(MOQ/1Bag)
Strain-relief cap	1**3XLC-SET	50pcs (2pcs 1 set)

■ MECHANICAL SPECIFICATION

(XLC-40-S Independent Type) Case No.XLC-25-S Unit:mm Tolerance:±1

※ Blank type



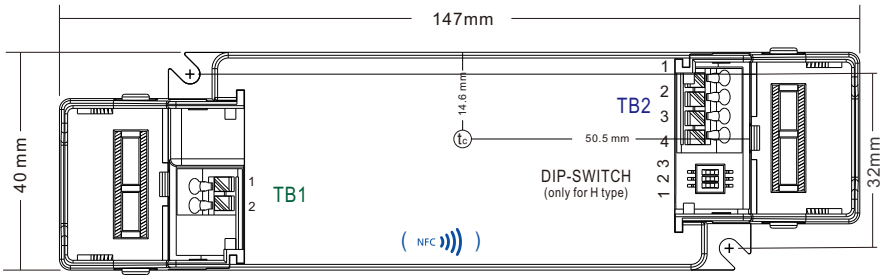
※ Terminal Pin No. Assignment(TB1)

Pin No.	Assignment
1	AC/N
2	AC/L

※ Terminal Pin No. Assignment(TB2)

Pin No.	Assignment
1	+V
2	-V

※ B type



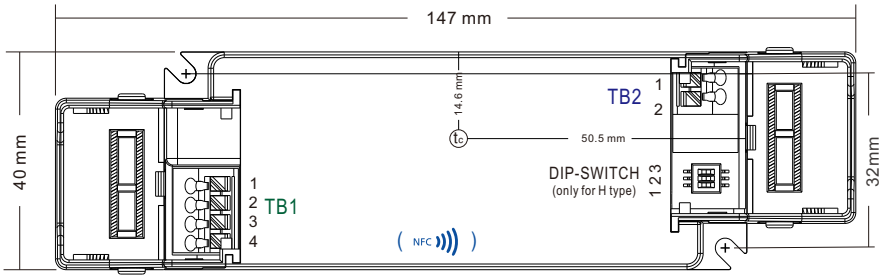
※ Terminal Pin No. Assignment(TB1)

Pin No.	Assignment
1	AC/N
2	AC/L

※ Terminal Pin No. Assignment(TB2)

Pin No.	Assignment
1	+V
2	-V
3	DIM+
4	DIM-

※ DA2 type



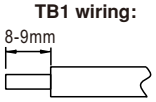
※ Terminal Pin No. Assignment(TB1)

Pin No.	Assignment
1	AC/N
2	AC/L
3	DA+/PUSH
4	DA-/N

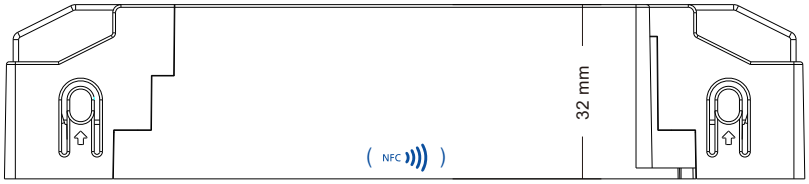
※ Terminal Pin No. Assignment(TB2)

Pin No.	Assignment
1	+V
2	-V

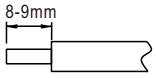
TB1 wiring:



□ 0.75-1.5mm²



TB2 wiring:



□ 0.5-1.5mm²

■ Installation Manual

Please refer to : http://www.meanwell.com/manual.html