







CUL US LISTED CLASS P LED DRIVER 4HB3 E334687

XLC-25-S Series (Independent type)

DC Input:176-280 VDC

XLC-25 Series (Built-in type)



- 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) 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

SELV P CBCEK

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

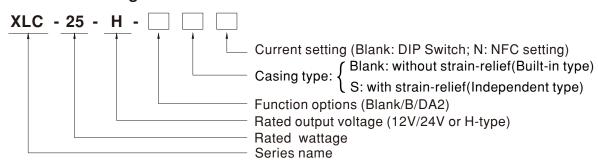
■ GTIN CODE

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

Description

XLC-25 Series is a 25W with constant power and constant voltage output LED driver . It can operate from $100\sim305$ VAC and output current ranging between 300 mA to 1050 mA selectable by dip switch or NFC setting. Thanks to high efficiency up to 88%, it is able to operate for -25° C $\sim85^{\circ}$ C case temperature under free air convection. XLC-25 is designed based on latest safety regulations with 3 in 1 and DALI-2 dimming. XLC-25 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 DIP-switch or NFC setting	
	12, 24V Constant voltage output	
В	H type output current selectable by DIP-switch or NFC with 3 in 1 dimming	In stock
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-25-H type only.



SPECIFICATION

		XLC-25-12-	XLC-25-24-			
	RATED VOLTAGE	12V	24V			
OUTPUT	RATED CURRENT	2.1A	1.05A			
	RATED POWER Note.2	25.2W	25.2W			
	RIPPLE & NOISE (max.) Note.3	3 120mVp-p 240mVp-p				
	VOLTAGE TOLERANCE Note.4	±4.0%				
	LINE REGULATION	±0.5%				
	LOAD REGULATION	±2.0%				
	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)				
٠,	EFFICIENCY (Typ.)	86% 88%				
	AC CURRENT	0.35A / 115VAC				
	INRUSH CURRENT(Typ.)	COLD START 10A(twidth=100μs measu	red at 50% Ipeak) at 230VAC; Per NEMA 410			
	MAX. No. of PSUs on 16A CIRCUIT BREAKER	71 units (circuit breaker of type B) / 71 units (circuit breaker of type C) at 230VAC				
	LEAKAGE CURRENT	<0.75mA / 277VAC				
	OVERLOAR	105 ~ 220% rated output power				
	OVER LOAD	Protection type:Hiccup mode, recovers	automatically after fault condition is removed			
TECTION	SHORT CIRCUIT	Hiccup mode, recovers automatically aff	ter fault condition is removed			
TECTION	OVERVOLTAGE	13~16V 26~32V				
	OVER VOLTAGE	Shut down and latch off o/p voltage, re-power on to recover				
	OVER TEMPERATURE	Shut down output voltage, recovers auto	omatically after fault condition is removed			
	WORKING TEMP.	Tcase=-25 ~ 85°C (Please refer to "OUTPUT LOAD vs TEMPERATURE" section)				
	MAX. CASE TEMP.	Tcase=85°C				
IRONMENT	WORKING HUMIDITY	20 ~ 90% RH non-condensing				
	STORAGE TEMP., HUMIDITY	-40 ~ +80°C, 10 ~ 95% RH				
	TEMP. COEFFICIENT	±0.03%/°C (0 ~ 50°C)				
	VIBRATION	10 ~ 500Hz, 2G 10min./1cycle, period fo	• • •			
	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 independent, GB19510.14, GB19510.1, 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				
	SAI ETT STANDARDS	Design refer to AS/NZS 61347-1, AS/N	23 01347-2-13			
	WITHSTAND VOLTAGE	Design refer to AS/NZS 61347-1, AS/N I/P-O/P:3.75KVAC	23 01347-2-13			
	WITHSTAND VOLTAGE	I/P-O/P:3.75KVAC		Test Level/Note		
	WITHSTAND VOLTAGE	I/P-O/P:>100M Ohms / 500VDC / 25°C	/70% RH	Test Level/Note		
	WITHSTAND VOLTAGE ISOLATION RESISTANCE	I/P-O/P:3.75KVAC I/P-O/P:>100M Ohms / 500VDC / 25°C Parameter	/70% RH Standard			
	WITHSTAND VOLTAGE	I/P-O/P:3.75KVAC I/P-O/P:>100M Ohms / 500VDC / 25°C Parameter Conducted	/70% RH Standard BS EN/EN55015(CISPR15) ,GB/T 17743 BS EN/EN55015(CISPR15) ,GB/T 17743			
FETY &	WITHSTAND VOLTAGE ISOLATION RESISTANCE	I/P-O/P:3.75KVAC I/P-O/P:>100M Ohms / 500VDC / 25°C Parameter Conducted Radiated Harmonic Current	/70% RH Standard BS EN/EN55015(CISPR15) ,GB/T 17743 BS EN/EN55015(CISPR15) ,GB/T 17743 BS EN/EN61000-3-2 , GB17625.1			
	WITHSTAND VOLTAGE ISOLATION RESISTANCE	I/P-O/P:3.75KVAC I/P-O/P:>100M Ohms / 500VDC / 25°C Parameter Conducted Radiated Harmonic Current Voltage Flicker	/70% RH Standard BS EN/EN55015(CISPR15) ,GB/T 17743 BS EN/EN55015(CISPR15) ,GB/T 17743	 Class C @load≥50%		
	WITHSTAND VOLTAGE ISOLATION RESISTANCE	I/P-O/P:3.75KVAC I/P-O/P:>100M Ohms / 500VDC / 25°C Parameter Conducted Radiated Harmonic Current Voltage Flicker BS EN/EN61547	/70% 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	 Class C @load≥50%		
	WITHSTAND VOLTAGE ISOLATION RESISTANCE	I/P-O/P:3.75KVAC I/P-O/P:>100M Ohms / 500VDC / 25°C Parameter Conducted Radiated Harmonic Current Voltage Flicker BS EN/EN61547 Parameter	/70% 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	Class C @load≥50% Test Level/Note		
	WITHSTAND VOLTAGE ISOLATION RESISTANCE	I/P-O/P:3.75KVAC I/P-O/P:>100M Ohms / 500VDC / 25°C Parameter Conducted Radiated Harmonic Current Voltage Flicker BS EN/EN61547 Parameter ESD	/70% 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	Class C @load≥50% Test Level/Note Level 3, 8KV air ; Level 2, 4KV contact		
	WITHSTAND VOLTAGE ISOLATION RESISTANCE EMC EMISSION	I/P-O/P:3.75KVAC I/P-O/P:>100M Ohms / 500VDC / 25°C Parameter Conducted Radiated Harmonic Current Voltage Flicker BS EN/EN61547 Parameter ESD Radiated	/70% 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	Class C @load≥50% Test Level/Note Level 3, 8KV air ; Level 2, 4KV contacted to the contac		
	WITHSTAND VOLTAGE ISOLATION RESISTANCE	I/P-O/P:3.75KVAC I/P-O/P:>100M Ohms / 500VDC / 25°C Parameter Conducted Radiated Harmonic Current Voltage Flicker BS EN/EN61547 Parameter ESD Radiated EFT/Burst	/70% 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 BS EN/EN61000-4-4	Class C @load≥50% Test Level/Note Level 3, 8KV air; Level 2, 4KV contacted by the contact		
	WITHSTAND VOLTAGE ISOLATION RESISTANCE EMC EMISSION	I/P-O/P:3.75KVAC I/P-O/P:>100M Ohms / 500VDC / 25°C Parameter Conducted Radiated Harmonic Current Voltage Flicker BS EN/EN61547 Parameter ESD Radiated EFT/Burst Surge	/70% 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 BS EN/EN61000-4-4 BS EN/EN61000-4-5	Class C @load≥50% Test Level/Note Level 3, 8KV air; Level 2, 4KV contact Level 2 Level 2 Level 3, 1KV/Line-Line		
	WITHSTAND VOLTAGE ISOLATION RESISTANCE EMC EMISSION	I/P-O/P:3.75KVAC I/P-O/P:>100M Ohms / 500VDC / 25°C Parameter Conducted Radiated Harmonic Current Voltage Flicker BS EN/EN61547 Parameter ESD Radiated EFT/Burst Surge Conducted	/70% 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/EN61000-4-4 BS EN/EN61000-4-5 BS EN/EN61000-4-6	Class C @load≥50% Test Level/Note Level 3, 8KV air ; Level 2, 4KV contact Level 2 Level 2 Level 3, 1KV/Line-Line Level 2		
FETY & I	WITHSTAND VOLTAGE ISOLATION RESISTANCE EMC EMISSION	I/P-O/P:3.75KVAC I/P-O/P:>100M Ohms / 500VDC / 25°C Parameter Conducted Radiated Harmonic Current Voltage Flicker BS EN/EN61547 Parameter ESD Radiated EFT/Burst Surge	/70% 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 BS EN/EN61000-4-4 BS EN/EN61000-4-5	Class C @load≥50% Test Level/Note Level 3, 8KV air ; Level 2, 4KV contact Level 2 Tow residual voltage for 10		
	WITHSTAND VOLTAGE ISOLATION RESISTANCE EMC EMISSION EMC IMMUNITY	I/P-O/P:3.75KVAC I/P-O/P:>100M Ohms / 500VDC / 25°C Parameter Conducted Radiated Harmonic Current Voltage Flicker BS EN/EN61547 Parameter ESD Radiated EFT/Burst Surge Conducted Magnetic Field Voltage Dips and Interruptions	/70% 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 BS EN/EN61000-4-4 BS EN/EN61000-4-5 BS EN/EN61000-4-6 BS EN/EN61000-4-8	Class C @load≥50% Test Level/Note Level 3, 8KV air ; Level 2, 4KV contact Level 2 Tow residual voltage for 10		
	WITHSTAND VOLTAGE ISOLATION RESISTANCE EMC EMISSION EMC IMMUNITY FLICKER Note.6	I/P-O/P:3.75KVAC I/P-O/P:>100M Ohms / 500VDC / 25°C 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	/70% 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 BS EN/EN61000-4-4 BS EN/EN61000-4-5 BS EN/EN61000-4-6 BS EN/EN61000-4-8 BS EN/EN61000-4-8 BS EN/EN61000-4-11	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 Test Level 2 Level 2 Level 2 Level 2 Level 2 To% residual voltage for 10 period, 0% residual voltage for 0.5 periods		
ic	WITHSTAND VOLTAGE ISOLATION RESISTANCE EMC EMISSION EMC IMMUNITY FLICKER Note.6 MTBF	I/P-O/P:3.75KVAC I/P-O/P:>100M Ohms / 500VDC / 25°C 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 3949.8 K hrs min. Telcordia SR-332 (/70% 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 BS EN/EN61000-4-4 BS EN/EN61000-4-5 BS EN/EN61000-4-6 BS EN/EN61000-4-8 BS EN/EN61000-4-8 BS EN/EN61000-4-11	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 2 Level 2 70% residual voltage for 10 period, 0% residual voltage for 0.5 period		
	WITHSTAND VOLTAGE ISOLATION RESISTANCE EMC EMISSION EMC IMMUNITY FLICKER Note.6	I/P-O/P:3.75KVAC I/P-O/P:>100M Ohms / 500VDC / 25°C 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 3949.8 K hrs min. Telcordia SR-332 (147*40*32mm,107*40*32mm (L*W*H)	/70% 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 BS EN/EN61000-4-4 BS EN/EN61000-4-5 BS EN/EN61000-4-6 BS EN/EN61000-4-8 BS EN/EN61000-4-8 BS EN/EN61000-4-11	Class C @load≥50% Test Level/Note Level 3, 8KV air; Level 2, 4KV contactevel 2 Level 2 Level 2 Level 2 Level 2 Level 2 Tow residual voltage for 10 period, 0% residual voltage for 0.5 periods F (25°C)		

- 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°C/1000m with fanless models and 5°C/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 (c) point (or TMP, per DLC), is about 70°C or less.

 11. 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.

 For XLC-S series: RCM is on a voluntary basis. Non IC classification Independent LED control gear is not suitable for residential installations.

 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, please contact with MEAN WELL sales.

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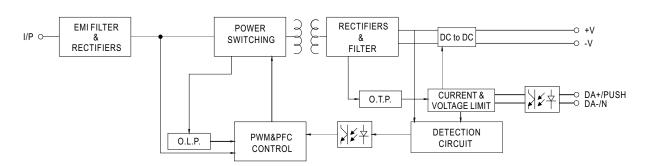


SPECIFICATION

MODEL		XLC-25-H- 🗌 🔲					
WODEL	OPEN CIRCUIT						
	VOLTAGE Note.2	60V					
ОИТРИТ	DEFAULT CURRENT	700mA					
	CURRENT ADJ.RANGE	0.3~1.05A					
	(BY DIP SWITCH OR NFC)	0.0 1.000					
	CONSTANT CURRENT REGION Note.3	9~54V					
	RATED POWER Note.4	25W					
	CURRENT RIPPLE	<4%					
	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) THD<10% (@load > 50% /230VAC, @load > 75% /277VAC), THD<15% (@load > 50% /115VAC)					
	TOTAL HARMONIC DISTORTION	THD<10%(@load≥50%/230VAC; @load≥75%/277VAC), THD<15%(@load≥50%/115VAC) (Please refer to "TOTAL HARMONIC DISTORTION(THD)" section)					
INPUI	EFFICIENCY (Typ.) Note.7 AC CURRENT	88% 0.35A / 115VAC					
			0.35A / 115VAC				
	INRUSH CURRENT(Typ.) MAX. No. of PSUs on 16A	,	, ,				
	CIRCUIT BREAKER	71 units (circuit breaker of type B) / 71 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		dition is ramoved			
PROTECTION	OVER TEMPERATURE		Blank & B type: De-rating to lowest output level. Recovers automatically after fault condition is removed.				
	WORKING TEMP.	DA2 type: Stage 1: De-rating to 75% loading; Stage 2: De-rating to 50% loading. Recovers automatically after fault condition is removed. Tcase=-25 ~ 85°C (Please refer to "OUTPUT LOAD vs TEMPERATURE" section)					
	MAX. CASE TEMP.	Tcase=85°C	TOTAL TO TERM ENTRONE GOODS				
	WORKING HUMIDITY	20 ~ 90% RH non-condensing					
ENVIRONMENT		-40 ~ +80°C, 10 ~ 95% RH					
	TEMP. COEFFICIENT	±0.03%/°C (0~50°C)					
	VIBRATION	10 ~ 500Hz, 2G 10min./1cycle, period for 6	60min. 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 independent, GB19510.14, GB19510.1, 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					
SAFETY &	ISOLATION RESISTANCE	I/P-O/P:>100M Ohms / 500VDC / 25°C / 7	0% RH				
EMC		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%			
		Voltage Flicker	BS EN/EN61000-3-3				
		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/EN61000-4-4	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			
	FLICKER Note.9	$PstLM \leqslant 1, SVM \leqslant 0.4$					
OTHERS	MTBF	3949.8 K hrs min. Telcordia SR-332 (Bellcore); 338.5 Khrs min. MIL-HDBK-217F (25°C)					
	DIMENSION	147*40*32mm,107*40*32mm (L*W*H)	(no): 160g: 50nog/9 41/2/0 5701 157/5 0 4:				
NOTE	1 All perameters NOT appoints a	141.6g; 60pcs/8.4Kg/0.58CUFT(for blank ty nentioned are measured at 230VAC input, rated	(rpe); 160g; 50pcs/8.1Kg/0.57CUFT(for S-type)				
	 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 w hich can support for DALI power on function, otherwise the startup time will be higher than 0.5 second. 7. Efficiency is measured at 500mA/50V output set by dip-switch or NFC. 8. Standby power consumption is measured at 230VAC. 9. Flicker is measured at Ill 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(except < 8) series: RCM is on a voluntary basis and meets relevant IEC or AS/NZS standards complying with AS/NZS 4417.1. 						
	12. To fulfill requirements of the la 13. This series meets the typical I 14. The ambient temperature de- 15. Products sourced from the An 16. For more information, please	test ErP regulation for lighting fixture, this LED fie expectancy of >50,000 hours of operation w ating of 3.5°C/1000m with fanless models and nericas regions may not have the CCC/PSE/BIS contact with MEAN WELL sales.	ndent LED control gear is not suitable for residential driver can only be used behind a switch without pe hen Tcase, particularly (£) point (or TMP, per DLC) 5°C/1000m with fan models for operating altitude h S/KC logo. Please contact your MEAN WELL sales ps://www.meanwell.com/serviceDisclaimer.asp	emanently connected to the mains. , is about 70°C or less. igher than 2000m(6500ft). for more information.			



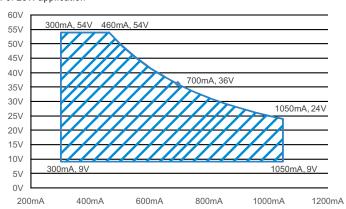
■ BLOCK DIAGRAM



■ DRIVING METHODS OF LED MODULE

O XLC-25-H

For 25W application



■ CONSTANT POWER TABLE

 ${\tt XLC-25-H}\ is\ a\ multiple-stage\ constant\ power\ driver,\ selection\ of\ output\ current\ through\ DIP\ switch\ or\ NFC\ setting\ is\ exhibited\ below.$

Vo	lo DIP S.W	1	2	3
9~54V	300mA			
9~54V	350mA			ON
9~54V	400mA		ON	
9~50V	500mA		ON	ON
9~42V	600mA	ON		
9~36V	700mA(default)	ON		ON
9~28V	900mA	ON	ON	
9~24V	1050mA	ON	ON	ON

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



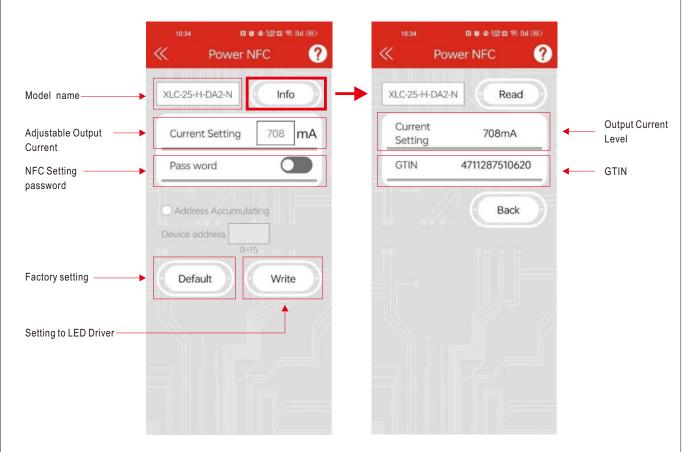
■ NFC Function Description

- 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





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.

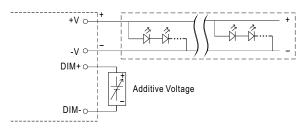


■ DIMMING OPERATION

B type

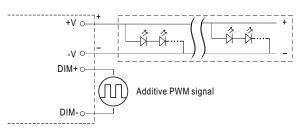
% 3 in 1 dimming function

- 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 μ A (typ.)



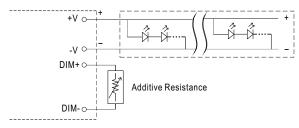
"DO NOT connect "DIM- to -V"

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

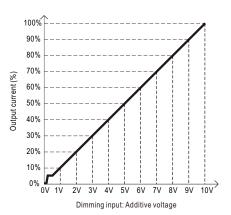


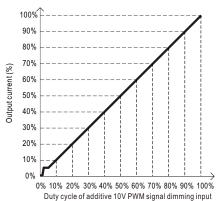
"DO NOT connect "DIM- to -V"

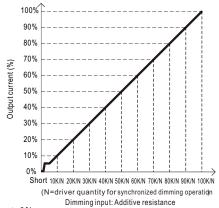
 \bigcirc Applying additive resistance: 0~100k Ω



"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%.

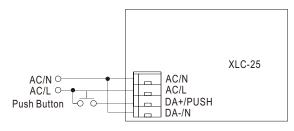
2. The output current could drop down to 0% when dimming input is about 0kΩ or 0Vdc, or 10V PWM signal with 0% duty cycle.

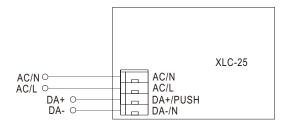


■ DIMMING OPERATION

O DA2 type (DALI-2 digital dimming function)

※ Input wiring diagram





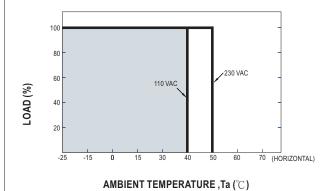
★PUSH dimming (primary side)

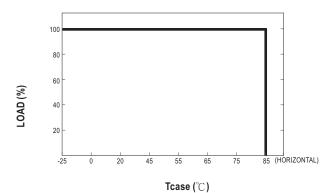
- The factory default dimming level is at 100%.
- If the push action lasts less than 0.05 sec., it will not lead to a change for the status of the driver.
- Up to 10 drivers can perform the PUSH dimming at the same time when utilizing one common push button.
 The maximum length of the cable from the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

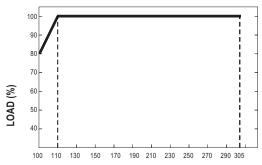


■ OUTPUT LOAD vs TEMPERATURE





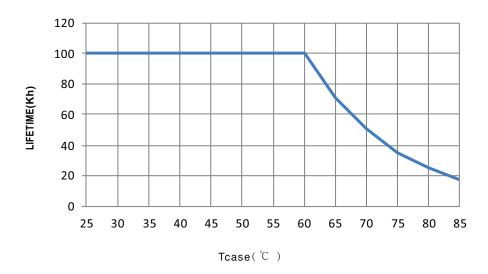
■ STATIC CHARACTERISTIC



INPUT VOLTAGE (V) 60Hz

De-rating is needed under low input voltage.

■ LIFE TIME



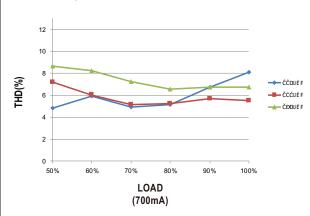


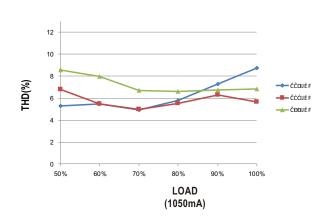
■ TOTAL HARMONIC DISTORTION (THD)

※ XLC-25-H,Tcase at 75

°

C

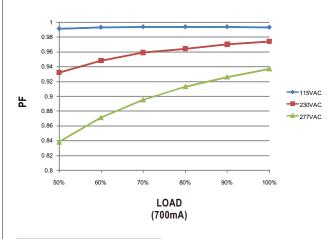


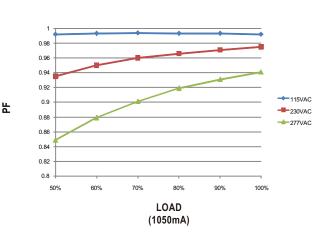


■ POWER FACTOR (PF) CHARACTERISTIC

※ XLC-25-H,Tcase at 75°

C





■ EFFICIENCY vs LOAD

XLC-25 series possess superior working efficiency that up to 88% can be reached in field applications.

※ XLC-25-H, Tcase at 75°

C

