



XLC-60-S Series (Independent type)





















Features

- Constant power mode output with multiple stage selectable by DIP switch or NFC setting (H-type)
- Constant voltage mode output(12/24/48V)
- · Plastic housing with class II and PFC design
- · Meet UL8750 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

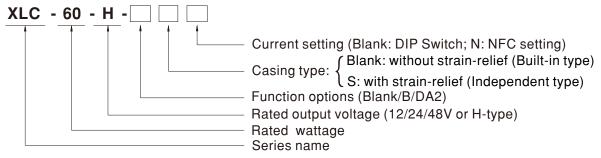
Applications

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

Description

XLC-60 Series is a 60W with constant power and constant voltage output LED driver. It can operate from 100 ~ 305VAC and output current ranging between 900 mA to 1700 mA selectable by DIP switch or NFC setting. Thanks to high efficiency up to 90%, it is able to operate for -25℃ ~90℃ case temperature under free air convection. XLC-60 is designed based on latest safety regulations with 3 in 1 and DALI-2 dimming. XLC-60 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



Туре	Function	Note
Blank	H type output current selectable by DIP-switch or NFC setting.	
Dialik	12, 24, 48V Constant voltage output	
В	H type output current selectable by DIP-switch or NFC with 3 in 1 dimming	la stasli
	12, 24, 48V Constant voltage output and built-in 3 in 1 Dimming(PWM Style output)	In stock
DA2	H type output current selectable by DIP-switch or NFC with DALI-2 dimming	
	12, 24, 48V Constant voltage output and built-in DALI-2(PWM Style output)	

Note: NFC current setting is available for XLC-60-H type only.

SPECIFICATION

	YI C-60 -12	YI C-60-24- 🗆 🗆	XLC-60-48-		
DC VOLTACE			48V		
			1.25A		
			60W		
			60VV		
		>0 0/277\/AC@full load			
POWER FACTOR	(Please refer to "POWER FACTOR (PF) CHARACTERISTIC" section)				
	Please refer to "TOTAL HARMONIC DIST	1 ≥ 75%/277VAC);	,		
	,		88%		
MAX. NO. of PSUs on 16A					
CIRCUIT BREAKER	25 units (circuit breaker of type B) / 36 units (circuit breaker of type C) at 230VAC				
LEAKAGE CURRENT	<0.75mA / 277VAC				
STANDBY POWER Note5	Standby power consumption<0.5W (Dimm	ning OFF only for standard version B/DA2-tyne)			
CONSUMPTION		ing of 1, only for standard version bib/12-type)			
OVERLOAD	105~200% rated output power				
	**	<u> </u>			
SHORT CIRCUIT	Hiccup mode, recovers automatically after	fault condition is removed			
OVER VOLTAGE	14~17V	26~35V	52~63V		
TIEN TOLINOL	1 0, 1				
OVER TEMPERATURE	1 0 7				
WORKING TEMP.	Tcase=-25~90°C (Please refer to " OUTPU	JT LOAD vs TEMPERATURE" section)			
MAX. CASE TEMP.	Tcase=90℃				
WORKING HUMIDITY	20 ~ 90% RH non-condensing				
STORAGE TEMP., HUMIDITY	-40 ~ +80°C, 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 STANDARDS	UL8750(Class P), CSA C22.2 No. 250.13-12; 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 13), GB/T19510.1, GB/T19510.213, EAC TP TC 004 approved: Design refer to AS/N/ZS 61347-1, AS/N/ZS 61347-2-13.				
DALL OTANDADDO	11	A3/N23 01347-1, A3/N23 01347-2-13			
		20/ DII			
ISOLATION RESISTANCE	1/P-O/P:>100M Onms / 500VDC / 25 C/ /C				
	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≥60%		
	Voltage Flicker	BS EN/EN61000-3-3			
	BS EN/EN61547				
		Standard	Test Level/Note		
			Level 3, 8KV air ; Level 2, 4KV contact		
			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 ≤ 1, SVM ≤ 0.4				
MTBF	·	re) 317.7Khrs min. MIL-HDBK-217F (25°C)			
DIMENSION	176*45*32mm , 136*45*32mm (L*W*H)				
PACKING	0.32Kg; 40pcs/13.8Kg/0.48CUFT(for XLC-60 Series); 0.39Kg; 40pcs/16.6Kg/0.61CUFT(for XLC-60-S Series);				
 All parameters NOT specially mentioned are measured at 230VAC input, rated current and 25 ℃ of ambient temperature. De-rating may be needed under low input voltages. Please refer to "STATIC CHARACTERISTIC" sections for details. 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. Current ripple is measured 50%~100% of maximum voltage under rated power delivery. Standby power consumption is measured at 230VAC. 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) The ambient temperature derating of 3.5℃/1000m with fanless models and of 5℃/1000m with fan models for operating altitude higher than 2000m(6500ft). To fulfill requirements of the latest ErP regulation for lighting fixture, this LED driver can only be used behind a switch without permanently connected to the mains. Flicker is measured at full load with the light source provided by MEAN WELL. 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. This series meets the typical life expectancy of 50000 hours of operation when Tcase, particularly to point(or TMP,per DLC), is about 75℃ or less. 					
	TOTAL HARMONIC DISTORTION EFFICIENCY(Typ.) AC CURRENT INRUSH CURRENT MAX. NO. of PSUS on 16A CIRCUIT BREAKER LEAKAGE CURRENT STANDBY POWER Note5 CONSUMPTION OVERLOAD SHORT CIRCUIT OVER VOLTAGE OVER TEMPERATURE WORKING TEMP. MAX. CASE TEMP. WORKING HUMIDITY STORAGE TEMP., HUMIDITY TEMP. COEFFICIENT VIBRATION SAFETY STANDARDS DALI STANDARDS WITHSTAND VOLTAGE ISOLATION RESISTANCE EMC EMISSION EMC EMISSION EMC EMISSION EMC EMISSION EMC EMISSION FLICKER Note.9 MTBF DIMENSION PACKING 1. All parameters NOT speed 3. Length of set up time is not a considered affected by the complete (as available on https://www.parameters.org.) EMC EMISSION The ambient temperature than 2000m(6500ft). 8. To fulfill requirements of the complete (as available on https://www.parameters.org.) 8. To fulfill requirements of the complete (as available on https://www.parameters.org.) 1. To fulfill requirements of the complete (as available on https://www.parameters.org.)	DEFAULT CURRENT SA	DEFAULT CURRENT 5A		

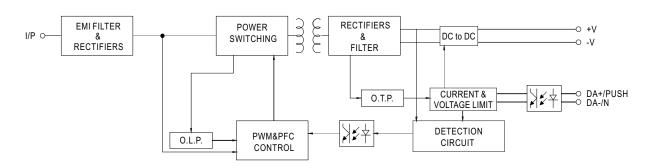


60W Multiple-Stage Constant Power LED Driver

PECIFICATION	DN					
MODEL		XLC-60-H-				
	OPEN CIRCUIT VOLTAGE Note14	14 60V				
	DEFAULT CURRENT	1400mA				
	CURRENT ADJ. RANGE	0.9~1.7A				
	(BY DIP SWITCH OR NFC)	0.0 1.77				
	CONSTANT CURRENT REGION	9~54V				
OUTPUT	RATED POWER	60W				
	CURRENT RIPPLE Note4	<4%				
	CURRENT TOLERANCE	\$\frac{4\%}{\pmu}\$				
	DIMMING RANGE	0~100%				
	SETUP, RISE TIME Note12	800ms,100ms/230VAC ,1000ms,100ms/115V	/AC			
	VOLTAGE RANGE	100 ~ 305VAC 155 ~400VDC	AC			
	FREQUENCY RANGE	47 ~ 63Hz				
	FREQUENCT RANGE	47 ~ 63HZ PF≥0.95/115VAC, PF≥0.95/230VAC,PF≥0.9/277VAC@full load				
	POWER FACTOR	(Please refer to "POWER FACTOR (PF) CHARACTERISTIC" section)				
	TOTAL HARMONIC	THD< 20%(@load ≥60%/230VAC; @load ≥75%/277VAC); THD<10%@load 100%/230VAC				
	DISTORTION	(Please refer to "TOTAL HARMONIC DISTOR"	TION(THD)" section)			
INPUT	EFFICIENCY(Typ.) Note11	90%				
	AC CURRENT	0.75A/115VAC, 0.35A/230VAC, 0.3A/277VAC				
	INRUSH CURRENT	COLD START 15A(twidth=310µs measured at	50% Ipeak) at 230VAC; Per NEMA 410			
	MAX. NO. of PSUs on 16A	25 units (circuit breaker of type B) / 36 units (circuit breaker of type B)	circuit breaker of type C) at 230VAC			
	CIRCUIT BREAKER	, , , ,	on our broaker or type of at 200 VAC			
	LEAKAGE CURRENT	<0.75mA / 277VAC				
	STANDBY POWER Note5	Standby power consumption<0.5W (Dimming off, only for standard version B/DA2-type)				
	CONSUMPTION SHORT CIRCUIT	Hiccup mode, recovers automatically after fau	It condition is removed			
	SHORT CIRCUIT					
PROTECTION	OVER TEMPERATURE	DA2 type: Stage 1: Derating to 75% loading; stage2: Derating to 50% loading; Recovers automatically after fault condition is removed				
	OVER TEMPERATORE			removed		
	WORKING TEMP.		Blank & B type: Derating to lowest output level, Recovers automatically after fault condition is removed Tcase=-25~90°C (Please refer to "OUTPUT LOAD vs TEMPERATURE" section)			
	MAX. CASE TEMP.	Trase=90°C				
	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	, ,	in, each along X, Y, Z axes			
		10 ~ 500Hz, 2G 10min./1cycle, period for 60min. each along X, Y, Z axes UL8750(Class P), CSA C22.2 No. 250.13-12; ENEC BS EN/EN61347-1, BS EN/EN61347-2-13(EL) appendix J suitable				
	SAFETY STANDARDS	OL8750(Class P), CSA C22.2 No. 250.13-12; ENEC BS EN/EN61347-1, BS EN/EN61347-2-13(EL) appendix 3 suitable for emergency installations(DC input 176-280VDC); BS EN/EN62384 , BIS IS15885(Part2/Sec13)(NOTE 13),				
		GB/T19510.1, GB/T19510.213, EAC TP TC 004 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% F	RH			
		Parameter	Standard	Test Level/Note		
SAFETY&EMC		Conducted	BS EN/EN55015(CISPR15) ,GB/T 17743			
SAFETTALMO	EMC EMISSION	Radiated Harmonic Current	BS EN/EN55015(CISPR15) ,GB/T 17743 BS EN/EN61000-3-2 , GB17625.1	Class C @load≥60%		
		Voltage Flicker	BS EN/EN61000-3-3			
		BS EN/EN61547				
		Parameter	Standard P. Standard	Test Level/Note		
		Radiated Radiated	BS EN/EN61000-4-2 BS EN/EN61000-4-3	Level 3, 8KV air ; Level 2, 4KV contact 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	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		
			The state of the s	i i,		
	FLICKER Note.9	PstLM ≤ 1, SVM ≤ 0.4	•			
	FLICKER Note.9 MTBF	PstLM ≤ 1, SVM ≤ 0.4 4130.5K hrs min. Telcordia SR-332 (Bellcore)	317.7Khrs min. MIL-HDBK-217F (25°C)			
OTHERS		,	317.7Khrs min. MIL-HDBK-217F (25°C)			
OTHERS	MTBF DIMENSION	4130.5K hrs min. Telcordia SR-332 (Bellcore) 176*45*32mm , 136*45*32mm (L*W*H)	\ -7	-T/for XI C-60-S Series)		
OTHERS	MTBF DIMENSION PACKING	4130.5K hrs min. Telcordia SR-332 (Bellcore) 176*45*32mm , 136*45*32mm (L*W*H) 0.32Kg; 40pcs/13.8Kg/0.48CUFT(for XLC-60	Series); 0.39Kg; 40pcs/16.6Kg/0.61CUF	,		
OTHERS	MTBF DIMENSION PACKING 1. All parameters NOT spec	4130.5K hrs min. Telcordia SR-332 (Bellcore) 176*45*32mm , 136*45*32mm (L*W*H) 0.32Kg; 40pcs/13.8Kg/0.48CUFT(for XLC-60 ially mentioned are measured at 230VAC	Series); 0.39Kg; 40pcs/16.6Kg/0.61CUf	ent temperature.		
DTHERS	MTBF DIMENSION PACKING 1. All parameters NOT spec 2. De-rating may be needed	4130.5K hrs min. Telcordia SR-332 (Bellcore) 176*45*32mm , 136*45*32mm (L*W*H) 0.32Kg; 40pcs/13.8Kg/0.48CUFT(for XLC-60	Series); 0.39Kg; 40pcs/16.6Kg/0.61CUE C input, rated current and 25°C of ambie o "STATIC CHARACTERISTIC" sections	ent temperature.		
DTHERS	MTBF DIMENSION PACKING 1. All parameters NOT spec 2. De-rating may be needed 3. Length of set up time is n 4. Current ripple is measure	4130.5K hrs min. Telcordia SR-332 (Bellcore) 176*45*32mm , 136*45*32mm (L*W*H) 0.32Kg; 40pcs/13.8Kg/0.48CUFT(for XLC-60 ially mentioned are measured at 230VAC under low input voltages. Please refer to the easured at first cold start. Turning ON/C d 50%~100% of maximum voltage under	Series); 0.39Kg; 40pcs/16.6Kg/0.61CUI C input, rated current and 25°C of ambie o "STATIC CHARACTERISTIC" sections OFF the driver may lead to increase of the	ent temperature.		
DTHERS	MTBF DIMENSION PACKING 1. All parameters NOT spec 2. De-rating may be needed 3. Length of set up time is n 4. Current ripple is measure 5. Standby power consumpl	4130.5K hrs min. Telcordia SR-332 (Bellcore) 176*45*32mm , 136*45*32mm (L*W*H) 0.32Kg; 40pcs/13.8Kg/0.48CUFT(for XLC-60 lally mentioned are measured at 230VAC under low input voltages. Please refer to leasured at first cold start. Turning ON/C d 50%~100% of maximum voltage unde ion is measured at 230VAC.	Series); 0.39Kg; 40pcs/16.6Kg/0.61CUF C input, rated current and 25℃ of ambie o "STATIC CHARACTERISTIC" sections 0FF the driver may lead to increase of th r rated power delivery.	nt temperature. for details. e set up time.		
DTHERS	MTBF DIMENSION PACKING 1. All parameters NOT spec 2. De-rating may be needed 3. Length of set up time is n 4. Current ripple is measure 5. Standby power consumpt 6. The driver is considered a	4130.5K hrs min. Telcordia SR-332 (Bellcore) 176*45*32mm , 136*45*32mm (L*W*H) 0.32Kg; 40pcs/13.8Kg/0.48CUFT(for XLC-60 ially mentioned are measured at 230VAC under low input voltages. Please refer to the easured at first cold start. Turning ON/C d 50%~100% of maximum voltage under	Series); 0.39Kg; 40pcs/16.6Kg/0.61CUEC input, rated current and 25°C of ambie o "STATIC CHARACTERISTIC" sections OFF the driver may lead to increase of the rated power delivery.	int temperature. if for details. e set up time. EMC performance will be		
DTHERS	MTBF DIMENSION PACKING 1. All parameters NOT spec 2. De-rating may be needed 3. Length of set up time is n 4. Current ripple is measure 5. Standby power consumpl 6. The driver is considered a affected by the complete (as available on https://ww	4130.5K hrs min. Telcordia SR-332 (Bellcore) 176*45*32mm , 136*45*32mm (L*W*H) 0.32Kg; 40pcs/13.8Kg/0.48CUFT(for XLC-60 ially mentioned are measured at 230VAC under low input voltages. Please refer the survey of	Series); 0.39Kg; 40pcs/16.6Kg/0.61CUIC input, rated current and 25°C of ambie o "STATIC CHARACTERISTIC" sections OFF the driver may lead to increase of the rated power delivery. Combination with final equipment. Since Inturers must re-qualify EMC Directive on tement_en.pdf)	ont temperature. If or details. If o		
DTHERS	MTBF DIMENSION PACKING 1. All parameters NOT spec 2. De-rating may be needed 3. Length of set up time is n 4. Current ripple is measure 5. Standby power consumpl 6. The driver is considered a affected by the complete (as available on https://w 7. The ambient temperature	4130.5K hrs min. Telcordia SR-332 (Bellcore) 176*45*32mm, 136*45*32mm (L*W*H) 0.32Kg; 40pcs/13.8Kg/0.48CUFT(for XLC-60 inder low input voltages. Please refer the assured at first cold start. Turning ON/Cd 50%~100% of maximum voltage under ion is measured at 230VAC. sa a component that will be operated in constallation, the final equipment manufac	Series); 0.39Kg; 40pcs/16.6Kg/0.61CUIC input, rated current and 25°C of ambie o "STATIC CHARACTERISTIC" sections OFF the driver may lead to increase of the rated power delivery. Combination with final equipment. Since Inturers must re-qualify EMC Directive on tement_en.pdf)	ont temperature. If or details. If o		
DTHERS	MTBF DIMENSION PACKING 1. All parameters NOT spec 2. De-rating may be needed 3. Length of set up time is n 4. Current ripple is measure 5. Standby power consumpl 6. The driver is considered a affected by the complete (as available on https://w 7. The ambient temperature than 2000m(6500ft). 8. To fulfill requirements of til	4130.5K hrs min. Telcordia SR-332 (Bellcore) 176*45*32mm, 136*45*32mm (L*W*H) 0.32Kg; 40pcs/13.8Kg/0.48CUFT(for XLC-60 inder low input voltages. Please refer the assured at first cold start. Turning ON/Cd 50%~100% of maximum voltage under ion is measured at 230VAC. as a component that will be operated in constallation, the final equipment manufactow.meanwell.com//Upload/PDF/EMI_start derating of 3.5°C/1000m with fanless mine latest ErP regulation for lighting fixture.	Series); 0.39Kg; 40pcs/16.6Kg/0.61CUEC input, rated current and 25°C of ambies o "STATIC CHARACTERISTIC" sections OFF the driver may lead to increase of the rated power delivery. Combination with final equipment. Since laturers must re-qualify EMC Directive on tement_en.pdf) odels and of 5°C/1000m with fan models	int temperature. If or details. If or operating altitude higher		
	MTBF DIMENSION PACKING 1. All parameters NOT spec 2. De-rating may be needed 3. Length of set up time is n 4. Current ripple is measure 5. Standby power consumpl 6. The driver is considered a affected by the complete (as available on https://w 7. The ambient temperature than 2000m(6500ft). 8. To fulfill requirements of the	4130.5K hrs min. Telcordia SR-332 (Bellcore) 176*45*32mm, 136*45*32mm (L*W*H) 0.32Kg; 40pcs/13.8Kg/0.48CUFT(for XLC-60 lally mentioned are measured at 230VAC under low input voltages. Please refer the leasured at first cold start. Turning ON/C d 50%~100% of maximum voltage under ion is measured at 230VAC. In a component that will be operated in constallation, the final equipment manufactow.meanwell.com//Upload/PDF/EMI_stated derating of 3.5°C/1000m with fanless means latest ErP regulation for lighting fixtures the mains.	Series); 0.39Kg; 40pcs/16.6Kg/0.61CUR C input, rated current and 25°C of ambie o "STATIC CHARACTERISTIC" sections OFF the driver may lead to increase of the rated power delivery. Combination with final equipment. Since I turers must re-qualify EMC Directive on tement_en.pdf) odels and of 5°C/1000m with fan models e, this LED driver can only be used behing.	int temperature. If or details. If or operating altitude higher		
	MTBF DIMENSION PACKING 1. All parameters NOT spec 2. De-rating may be needed 3. Length of set up time is n 4. Current ripple is measure 5. Standby power consumpl 6. The driver is considered a affected by the complete (as available on https://w 7. The ambient temperature than 2000m(6500ft). 8. To fulfill requirements of ti permanently connected to 9. Flicker is measured at full	4130.5K hrs min. Telcordia SR-332 (Bellcore) 176*45*32mm, 136*45*32mm (L*W*H) 0.32Kg; 40pcs/13.8Kg/0.48CUFT(for XLC-60 ially mentioned are measured at 230VAC under low input voltages. Please refer to reasured at first cold start. Turning ON/C d 50%~100% of maximum voltage unde ion is measured at 230VAC. as a component that will be operated in c installation, the final equipment manufac ww.meanwell.com//Upload/PDF/EMI_stat derating of 3.5°C/1000m with fanless me the latest ErP regulation for lighting fixtures to the mains.	Series); 0.39Kg; 40pcs/16.6Kg/0.61CUR C input, rated current and 25°C of ambie o "STATIC CHARACTERISTIC" sections OFF the driver may lead to increase of the rated power delivery. Combination with final equipment. Since laturers must re-qualify EMC Directive on tement_en.pdf) odels and of 5°C/1000m with fan models e, this LED driver can only be used behind EAN WELL.	int temperature. If or details. If or details. If or details. If or operformance will be the complete installation again. If or operating altitude higher and a switch without		
	MTBF DIMENSION PACKING 1. All parameters NOT spec 2. De-rating may be needed 3. Length of set up time is n 4. Current ripple is measure 5. Standby power consumpt 6. The driver is considered a affected by the complete (as available on https://wv 7. The ambient temperature than 2000m(6500ft). 8. To fulfill requirements of ti permanently connected te 9. Flicker is measured at full 10. For XLC-S series: RCM	4130.5K hrs min. Telcordia SR-332 (Bellcore) 176*45*32mm, 136*45*32mm (L*W*H) 0.32Kg; 40pcs/13.8Kg/0.48CUFT(for XLC-60 lally mentioned are measured at 230VAC under low input voltages. Please refer the leasured at first cold start. Turning ON/C d 50%~100% of maximum voltage under ion is measured at 230VAC. In a component that will be operated in constallation, the final equipment manufactow.meanwell.com//Upload/PDF/EMI_stated derating of 3.5°C/1000m with fanless means latest ErP regulation for lighting fixtures the mains.	Series); 0.39Kg; 40pcs/16.6Kg/0.61CUEC input, rated current and 25°C of ambies o "STATIC CHARACTERISTIC" sections oFF the driver may lead to increase of the rated power delivery. Combination with final equipment. Since laturers must re-qualify EMC Directive on tement_en.pdf) odels and of 5°C/1000m with fan models e, this LED driver can only be used behind EAN WELL. ation Independent LED control gear is not	int temperature. If or details. If or operating altitude higher If or operating altitude higher If or a switch without If or suitable for residential installations.		
	MTBF DIMENSION PACKING 1. All parameters NOT spec 2. De-rating may be needed 3. Length of set up time is n 4. Current ripple is measure 5. Standby power consumpl 6. The driver is considered a affected by the complete (as available on https://w 7. The ambient temperature than 2000m(6500ft). 8. To fulfill requirements of the permanently connected to 9. Flicker is measured at full 10. For XLC-S series: RCM For XLC(except -S) serie 11. Efficiency is measured a	4130.5K hrs min. Telcordia SR-332 (Bellcore) 176*45*32mm, 136*45*32mm (L*W*H) 0.32Kg; 40pcs/13.8Kg/0.48CUFT(for XLC-60 ially mentioned are measured at 230VAC under low input voltages. Please refer the asured at first cold start. Turning ON/C d 50%~100% of maximum voltage under ion is measured at 230VAC. as a component that will be operated in constallation, the final equipment manufact www.meanwell.com//Upload/PDF/EMI_start derating of 3.5°C/1000m with fanless meanured the start of the mains. I load with the light source provided by M is on a voluntary basis. Non IC classifices: RCM is on a voluntary basis and meanured to 1050mA/54V output set by DIP switch.	Series); 0.39Kg; 40pcs/16.6Kg/0.61CUR C input, rated current and 25°C of ambie o "STATIC CHARACTERISTIC" sections DFF the driver may lead to increase of the rated power delivery. combination with final equipment. Since I turers must re-qualify EMC Directive on tement_en.pdf) odels and of 5°C/1000m with fan models e, this LED driver can only be used behind EAN WELL. ation Independent LED control gear is not est selevant IEC or AS/NZS standards of	int temperature. If or details. If or details. If or details. If or details. If or operating altitude higher and a switch without If or operating altitude higher and a switch without If or operating altitude higher and a switch without If or operating altitude higher and a switch without If or operating altitude higher and a switch without If or operating altitude higher and a switch without without a switch wi		
	MTBF DIMENSION PACKING 1. All parameters NOT spec 2. De-rating may be needed 3. Length of set up time is n 4. Current ripple is measure 5. Standby power consumpt 6. The driver is considered a affected by the complete (as available on https://w 7. The ambient temperature than 2000m(6500ft). 8. To fulfill requirements of ti permanently connected to 9. Flicker is measured at full 10. For XLC-S series: RCM For XLC(except -S) seri 11. Efficiency is measured at 12. Based on IEC 62386-10	4130.5K hrs min. Telcordia SR-332 (Bellcore) 176*45*32mm, 136*45*32mm (L*W*H) 0.32Kg; 40pcs/13.8Kg/0.48CUFT(for XLC-60 ially mentioned are measured at 230VAC under low input voltages. Please refer to the saured at first cold start. Turning ON/C d 50%~100% of maximum voltage under ion is measured at 230VAC. as a component that will be operated in constallation, the final equipment manufact www.meanwell.com//Upload/PDF/EMI_state derating of 3.5°C/1000m with fanless means the latest ErP regulation for lighting fixtures the mains. Ioad with the light source provided by N is on a voluntary basis. Non IC classificates: RCM is on a voluntary basis and means to 1050mA/54V output set by DIP switch. 1/102 DALI power on timing and interruge.	Series); 0.39Kg; 40pcs/16.6Kg/0.61CUEC input, rated current and 25°C of ambies o "STATIC CHARACTERISTIC" sections OFF the driver may lead to increase of the rated power delivery. Combination with final equipment. Since laturers must re-qualify EMC Directive on tement_en.pdf) odels and of 5°C/1000m with fan models e, this LED driver can only be used behind IEAN WELL. ation Independent LED control gear is not est relevant IEC or AS/NZS standards contion regulations, the set up time needs to	int temperature. If or details. If or operation and a switch without If or operating altitude higher If or a switch without If or suitable for residential installations. If or operating altitude higher If operating altitu		
	MTBF DIMENSION PACKING 1. All parameters NOT spec 2. De-rating may be needed 3. Length of set up time is n 4. Current ripple is measure 5. Standby power consumpt 6. The driver is considered a affected by the complete (as available on https://wv 7. The ambient temperature than 2000m(6500ft). 8. To fulfill requirements of tip permanently connected te 9. Flicker is measured at full 10. For XLC-S series: RCM For XLC(except -S) serie 11. Efficiency is measured a 12. Based on IEC 62386-10 which can support for D	4130.5K hrs min. Telcordia SR-332 (Bellcore) 176*45*32mm, 136*45*32mm (L*W*H) 0.32Kg; 40pcs/13.8Kg/0.48CUFT(for XLC-60 ially mentioned are measured at 230VAC under low input voltages. Please refer the asured at first cold start. Turning ON/C d 50%~100% of maximum voltage under ion is measured at 230VAC. as a component that will be operated in constallation, the final equipment manufact www.meanwell.com//Upload/PDF/EMI_start derating of 3.5°C/1000m with fanless meanured the start of the mains. I load with the light source provided by M is on a voluntary basis. Non IC classifices: RCM is on a voluntary basis and meanured to 1050mA/54V output set by DIP switch.	Series); 0.39Kg; 40pcs/16.6Kg/0.61CUR C input, rated current and 25°C of ambie o "STATIC CHARACTERISTIC" sections of the driver may lead to increase of the rated power delivery. Combination with final equipment. Since laturers must re-qualify EMC Directive on tement_en.pdf) odels and of 5°C/1000m with fan models e, this LED driver can only be used behind the models of the description of th	int temperature. If or details. If or operating altitude higher If or operating altitude higher If or a switch without If or suitable for residential installations. If or operating altitude higher If operating		
	MTBF DIMENSION PACKING 1. All parameters NOT spec 2. De-rating may be needed 3. Length of set up time is n 4. Current ripple is measure 5. Standby power consumpl 6. The driver is considered a affected by the complete (as available on https://wx 7. The ambient temperature than 2000m(6500ft). 8. To fulfill requirements of ti permanently connected to 9. Flicker is measured at full 10. For XLC-S series: RCM For XLC(except -S) seri 11. Efficiency is measured a 12. Based on IEC 62386-10 which can support for D. 13. Products sourced from t and contact your MEAN	4130.5K hrs min. Telcordia SR-332 (Bellcore) 176*45*32mm, 136*45*32mm (L*W*H) 0.32Kg; 40pcs/13.8Kg/0.48CUFT(for XLC-60 ially mentioned are measured at 230VAC under low input voltages. Please refer to reasured at first cold start. Turning ON/C d 50%~100% of maximum voltage unde ion is measured at 230VAC. as a component that will be operated in c installation, the final equipment manufac ww.meanwell.com//Upload/PDF/EMI_stat derating of 3.5°C/1000m with fanless me the latest ErP regulation for lighting fixture to the mains. I load with the light source provided by N is on a voluntary basis. Non IC classifice ses: RCM is on a voluntary basis and me to 1050mA/54V output set by DIP switch. 1/102 DALI power on timing and interrup ALI power on function, otherwise the stat he China regions and some models sour WELL sales for more information.	Series); 0.39Kg; 40pcs/16.6Kg/0.61CUR C input, rated current and 25°C of ambie o "STATIC CHARACTERISTIC" sections of the driver may lead to increase of the rated power delivery. Combination with final equipment. Since laturers must re-qualify EMC Directive on tement_en.pdf) odels and of 5°C/1000m with fan models e, this LED driver can only be used behind the models of the description of th	int temperature. If or details. If or operating altitude higher If or operating altitude higher If or a switch without If or suitable for residential installations. If or operating altitude higher If operating		
	MTBF DIMENSION PACKING 1. All parameters NOT spec 2. De-rating may be needed 3. Length of set up time is n 4. Current ripple is measure 5. Standby power consumpt 6. The driver is considered a affected by the complete (as available on https://w 7. The ambient temperature than 2000m(6500ft). 8. To fulfill requirements of tipermanently connected to 9. Flicker is measured at full 10. For XLC-S series: RCM For XLC(except -S) serie 11. Efficiency is measured at 12. Based on IEC 62386-10 which can support for D 13. Products sourced from t and contact your MEAN 14. Output hiccups under no	4130.5K hrs min. Telcordia SR-332 (Bellcore) 176*45*32mm, 136*45*32mm (L*W*H) 0.32Kg; 40pcs/13.8Kg/0.48CUFT(for XLC-60 ially mentioned are measured at 230VAC under low input voltages. Please refer to reasured at first cold start. Turning ON/C d 50%~100% of maximum voltage unde ion is measured at 230VAC. as a component that will be operated in c installation, the final equipment manufac ww.meanwell.com//Upload/PDF/EMI_sta derating of 3.5°C/1000m with fanless me to the mains. load with the light source provided by N is on a voluntary basis. Non IC classificates: RCM is on a voluntary basis and me t 1050mA/54V output set by DIP switch. 1/102 DALI power on timing and interruy LI power on function, otherwise the stan the China regions and some models sour WELL sales for more information. b-load condition.(only for H-type).	Series); 0.39Kg; 40pcs/16.6Kg/0.61CUEC input, rated current and 25°C of ambies o "STATIC CHARACTERISTIC" sections of the driver may lead to increase of the rated power delivery. Combination with final equipment. Since laturers must re-qualify EMC Directive on tement_en.pdf) odels and of 5°C/1000m with fan models at the compact of the	int temperature. If or details. If or operating altitude higher If or operating altitude higher If or operating altitude higher If or a switch without If or suitable for residential installations. If or operating altitude higher If operating altitude higher		
	MTBF DIMENSION PACKING 1. All parameters NOT spec 2. De-rating may be needed 3. Length of set up time is n 4. Current ripple is measure 5. Standby power consumpt 6. The driver is considered a affected by the complete (as available on https://w 7. The ambient temperature than 2000m(6500ft). 8. To fulfill requirements of tipermanently connected to 9. Flicker is measured at full 10. For XLC-S series: RCM For XLC(except -S) serie 11. Efficiency is measured at 12. Based on IEC 62386-10 which can support for D 13. Products sourced from t and contact your MEAN 14. Output hiccups under no	4130.5K hrs min. Telcordia SR-332 (Bellcore) 176*45*32mm, 136*45*32mm (L*W*H) 0.32Kg; 40pcs/13.8Kg/0.48CUFT(for XLC-60 ially mentioned are measured at 230VAC under low input voltages. Please refer to reasured at first cold start. Turning ON/C d 50%~100% of maximum voltage unde ion is measured at 230VAC. as a component that will be operated in c installation, the final equipment manufac ww.meanwell.com//Upload/PDF/EMI_stat derating of 3.5°C/1000m with fanless me the latest ErP regulation for lighting fixture to the mains. I load with the light source provided by N is on a voluntary basis. Non IC classifice ses: RCM is on a voluntary basis and me to 1050mA/54V output set by DIP switch. 1/102 DALI power on timing and interrup ALI power on function, otherwise the stat he China regions and some models sour WELL sales for more information.	Series); 0.39Kg; 40pcs/16.6Kg/0.61CUEC input, rated current and 25°C of ambies o "STATIC CHARACTERISTIC" sections of the driver may lead to increase of the rated power delivery. Combination with final equipment. Since laturers must re-qualify EMC Directive on tement_en.pdf) odels and of 5°C/1000m with fan models at the compact of the	int temperature. If or details. If or operating altitude higher If or operating altitude higher If or operating altitude higher If or a switch without If or suitable for residential installations. If or operating altitude higher If operating altitude higher		
OTHERS	MTBF DIMENSION PACKING 1. All parameters NOT spec 2. De-rating may be needed 3. Length of set up time is n 4. Current ripple is measure 5. Standby power consumpl 6. The driver is considered a affected by the complete (as available on https://w 7. The ambient temperature than 2000m(6500ft). 8. To fulfill requirements of tip permanently connected to 9. Flicker is measured at full 10. For XLC-S series: RCM For XLC(except -S) seri 11. Efficiency is measured a 12. Based on IEC 62386-10 which can support for D 13. Products sourced from t and contact your MEAN 14. Output hiccups under no 15. This series meets the ty 75°C or less. 16. For more information, pl	4130.5K hrs min. Telcordia SR-332 (Bellcore) 176*45*32mm, 136*45*32mm (L*W*H) 0.32Kg; 40pcs/13.8Kg/0.48CUFT(for XLC-60 ially mentioned are measured at 230VAC under low input voltages. Please refer to reasured at first cold start. Turning ON/C d 50%~100% of maximum voltage unde ion is measured at 230VAC. as a component that will be operated in c installation, the final equipment manufac ww.meanwell.com//Upload/PDF/EMI_sta derating of 3.5°C/1000m with fanless me to the mains. load with the light source provided by N is on a voluntary basis. Non IC classificates: RCM is on a voluntary basis and me t 1050mA/54V output set by DIP switch. 1/102 DALI power on timing and interruy LI power on function, otherwise the stan the China regions and some models sour WELL sales for more information. b-load condition.(only for H-type).	Series); 0.39Kg; 40pcs/16.6Kg/0.61CUR C input, rated current and 25°C of ambie o "STATIC CHARACTERISTIC" sections of the driver may lead to increase of the rated power delivery. Combination with final equipment. Since I turers must re-qualify EMC Directive on tement_en.pdf) odels and of 5°C/1000m with fan models e, this LED driver can only be used behind the second of the control gear is not est relevant IEC or AS/NZS standards control regulations, the set up time needs the trup time will be higher than 0.5 second freed from India may not have the BIS log peration when Tcase, particularly to poin	int temperature. Is for details. Is e set up time. EMC performance will be the complete installation again. If or operating altitude higher and a switch without It suitable for residential installations. complying with AS/NZS 4417.1. It is to test with a DALI controller ago, please refer to BIS certificate for detail to TMP, per DLC), is about		

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

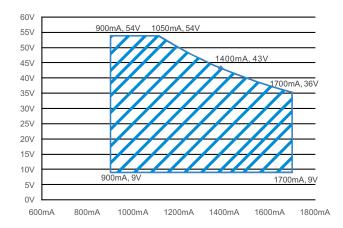
■ BLOCK DIAGRAM



■ DRIVING METHODS OF LED MODULE

○ XLC-60-H

For 60W application



■ CONSTANT POWER TABLE

XLC-60-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	900mA			
9~54V	1050mA			ON
9~50V	1200mA		ON	
9~46V	1300mA		ON	ON
9~43V	1400mA(default)	ON		
9~40V	1500mA	ON		ON
9~38V	1600mA	ON	ON	
9~36V	1700mA	ON	ON	ON

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



■ NFC Function Description

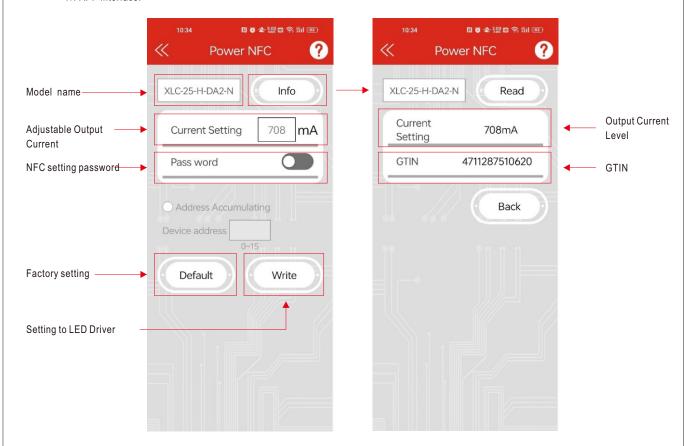
The output current of the NFC Mode LED driver can be adjusted using NFC via the mobile APP

Operation Instruction:

- · Compatible phone
 - Install an NFC-compatible smart mobile device or phone with Android $^{\text{TM}}$ 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

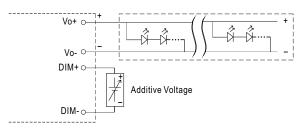
O B type

% 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.

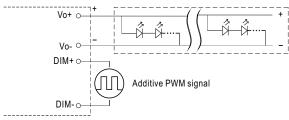
60W Multiple-Stage Constant Power/Constant Voltage LED Driver

- 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.)



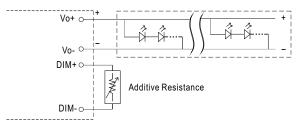
"DO NOT connect "DIM- to Vo-

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

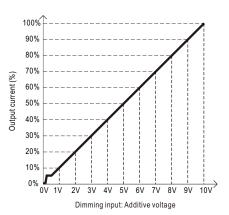


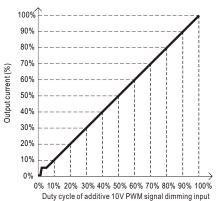
"DO NOT connect "DIM- to Vo-"

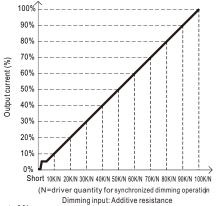
 \bigcirc Applying additive resistance: 0~100k Ω



"DO NOT connect "DIM- to Vo-"







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

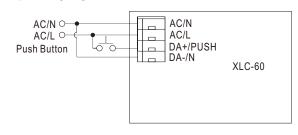
2. The output current could drop down to 0% when dimming input is about $0k\Omega$ or 0Vdc, or 10V PWM signal with 0% duty cycle.

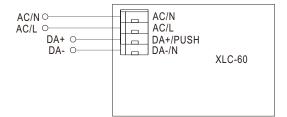


■ DIMMING OPERATION

O DA2 type (DALI-2 digital dimming function)

※ Input wiring diagram





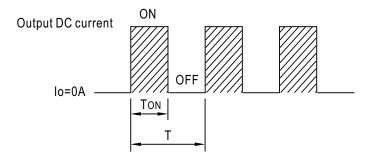
- The factory default dimming level is at 100%.
- If the push action lasts less than 0.05 sec., it will not lead to a change for the status of the driver.
- Up to 10 drivers can perform the PUSH dimming at the same time when utilizing one common push button.
- The maximum length of the cable from the 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%		Set up the dimming level to 100%
Long Push	1.5~10s	Every Long Push changes the dimming direction, dimming up or down

■ PWM OUTPUT DIMMING PRINCIPLE

※ For 12V/24V/48V PWM style output dimming

• Dimming is achieved by varying the duty cycle of the output current.

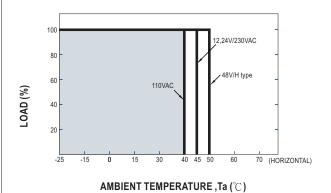


Duty cycle(%) =
$$\frac{\text{ToN}}{\text{T}} \times 100\%$$

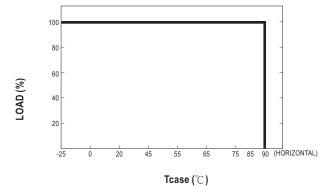
Output PWM frequency:

4kHz for B-Type fixed (Typ.) 3.2kHz for DA2-Type fixed (Typ.)

■ OUTPUT LOAD vs TEMPERATURE



60W Multiple-Stage Constant Power/Constant Voltage LED Driver

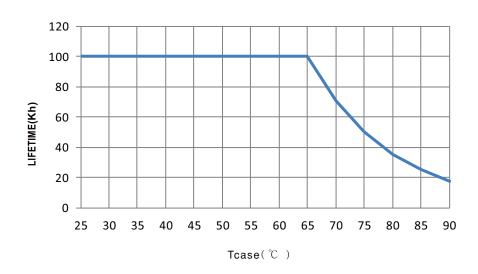


■ STATIC CHARACTERISTIC

80 70 LOAD (%) 60 $100 \quad 110 \quad 130 \quad 150 \quad 170 \quad 190 \quad 210 \quad 230 \quad 250 \quad 270 \quad 290 \ 305$

INPUT VOLTAGE (V) 60Hz ※ De-rating is needed under low input voltage.

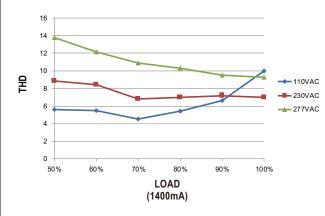
■ LIFE TIME

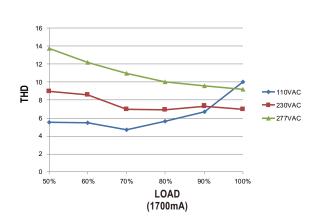




■ TOTAL HARMONIC DISTORTION (THD)

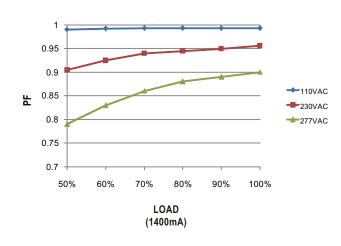


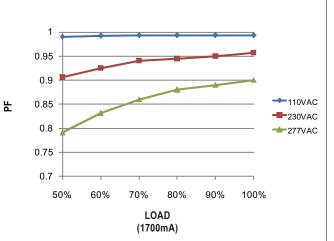




■ POWER FACTOR (PF) CHARACTERISTIC

★ Tcase at 75°C





■ EFFICIENCY vs LOAD

XLC-60 series possess superior working efficiency that up to 89% can be reached in field applications.

