





XLC-60-S Series (Independent type)

DC Input: 176-280VDC

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XLC-60 Series (Built-in type)



Features

DALL

- 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
- \cdot 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

Applications

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

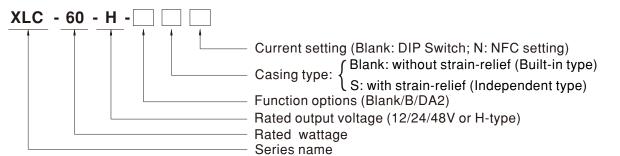
GTIN CODE MW Search: <u>https://www.meanwell.com/serviceGTIN.aspx</u>

5 years warranty

Description

XLC-60 Series is a 60W with constant power and constant voltage output LED driver . It can operate from 110~305V AC 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° C ~90°C 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.	
	12, 24, 48V Constant voltage output	
В	H type output current selectable by DIP-switch or NFC with 3 in 1 dimming	la stasla
	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

IODEL		XLC-60 -12-	XLC-60-24-	XLC-60-48-		
	DC VOLTAGE	12V	24V	48V		
	DEFAULT CURRENT	5A	2.5A	1.25A		
DUTPUT	RATED POWER	60W	60W	60W		
	SETUP, RISE TIME	800ms,180ms/230VAC ,1000ms,180ms/1	15VAC			
	VOLTAGE RANGE					
	FREQUENCY RANGE	110~305VAC 155~400VDC				
	FREQUENCI RANGE	47 ~ 63Hz PF≥0.95/115VAC, PF≥0.95/230VAC, PF≥0.9/277VAC@full load				
	POWER FACTOR	PF ≥ 0.95/115VAC, PF ≥ 0.95/250VAC, PF				
	TOTAL HARMONIC	THD< 20%(@load ≥60%/230VAC; @load	I ≥75%/277VAC); THD<10%@load 100%/230VA	2		
	DISTORTION	(Please refer to "TOTAL HARMONIC DISTORTION(THD)" section)				
NPUT	EFFICIENCY(Typ.)	86%	87%	88%		
INFOI	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 C) at 230VAC				
	CIRCUIT BREAKER					
	LEAKAGE CURRENT	<0.75mA/277VAC				
	STANDBY POWER Note5 CONSUMPTION	Standby power consumption<0.5W (Dimming OFF, only for standard version B/DA2-type)				
		105~200% rated output power				
	OVERLOAD	Protection type: Hiccup mode, recovers automatically after fault condition is removed.				
	SHORT CIRCUIT	Hiccup mode, recovers automatically after				
PROTECTION		14~17V	26~35V	52~63V		
	OVER VOLTAGE	Shut down output voltage, re-power on to				
	OVER TEMPERATURE					
	WORKING TEMP.	Shut down output voltage, recovers automatically after fault condition is removed				
	MAX. CASE TEMP.	Tcase=-25~90°C (Please refer to * OUTPUT LOAD vs TEMPERATURE" section) Tcase=90°C				
ENVIRONMENT	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 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 , GB19510.14, GB19510.1, 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	% RH			
		Parameter	Standard	Test Level/Note		
		Conducted	BS EN/EN55015(CISPR15) ,GB/T 17743			
	EMC EMISSION					
SAFETY&EMC		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				
		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 ≤ 1, SVM ≤ 0.4				
THERS	MTBF	4130.5K hrs min. Telcordia SR-332 (Bellco	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/0.61CUF	T(for XLC-60-S Series);		
OTE	 All parameters NOT specially mentioned are measured at 230VAC input, rated current and 25°C 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 agai (as available on https://www.meanwell.com//Upload/PDF/EMI_statement_en.pdf) The ambient temperature derating of 3.5°C/1000m with fanless models and of 5°C/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 tc point(or TMP,per DLC), is about 75°C or less. For or ore information, please contact with MEAN WELL sales. Product Liability Disclaimer: For detailed information, please refer to https://www.meanwell.com/serviceDisclaimer.aspx 					

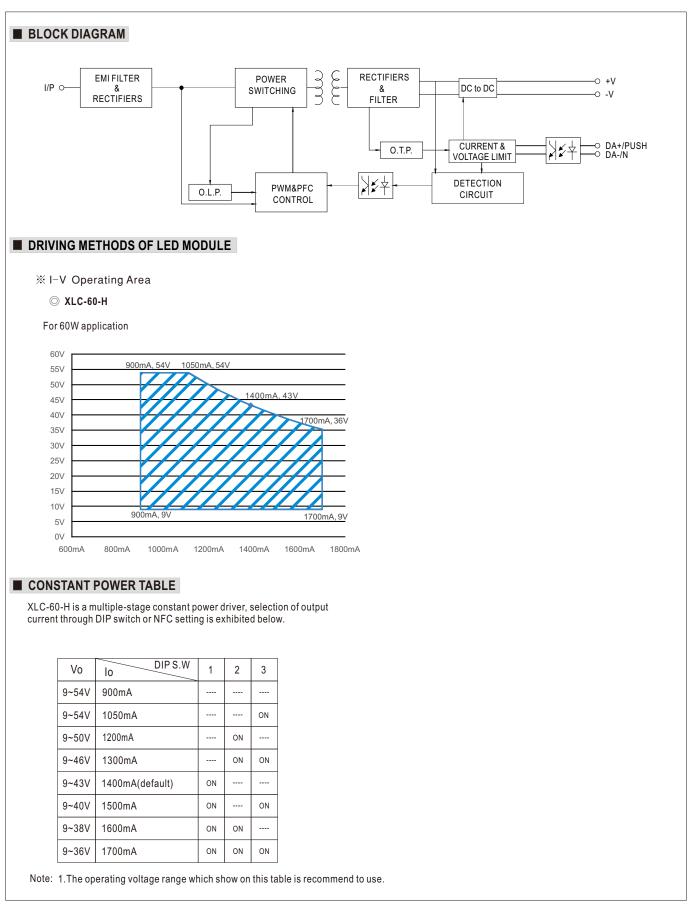


SPECIFICATION

MODEL		XLC-60-H-			
	OPEN CIRCUIT VOLTAGE Note13	e13 60V			
	DEFAULT CURRENT	1400mA			
	CURRENT ADJ. RANGE	0.9~1.7A			
	(BY DIP SWITCH OR NFC)				
	CONSTANT CURRENT REGION	9~54V			
OUTPUT	RATED POWER	60W			
	CURRENT RIPPLE Note4	<4%			
	DIMMING RANGE	±5% 0~100%			
			400		
	SETUP,RISE TIME Note12	800ms,100ms/230VAC ,1000ms/100ms/115VAC			
		110~305VAC 155~400VDC			
	FREQUENCY RANGE	47~63Hz			
	POWER FACTOR	PF≥0.95/115VAC, PF≥0.95/230VAC, PF≥0.9/277VAC@full load (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 DISTORTION(THD)" section)			
INPUT	EFFICIENCY(Typ.) Note11	90%			
INPUT	AC CURRENT	0.75A/115VAC, 0.35A/230VAC, 0.3A/277VAC			
	INRUSH CURRENT	COLD START 15A(twidth=310µs measured at 50% lpeak) at 230VAC; Per NEMA 410			
	MAX. NO. of PSUs on 16A	25 unite (aircuit broaker of two P) / 36 unite (aircuit broaker of two C) at 220\/AC			
	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 (Dimming off, only for standard version B/DA2-type)			
	CONSUMPTION				
	SHORT CIRCUIT	Hiccup mode, recovers automatically after fault condition is removed			
PROTECTION		DA2 type: Stage 1: Derating to 75% loading; stage2: Derating to 50% loading; Recovers automatically after fault condition is removed			
	OVER TEMPERATURE				
	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.	Tcase=90°C	CAD VS TEINT EIXTOILE Section)		
ENVIRONMENT	WORKING HUMIDITY	20 ~ 90% RH non-condensing			
	STORAGE TEMP., HUMIDITY	-40~+80°C, 10~95% RH			
	TEMP. COEFFICIENT	$\pm 0.03\%$ °C (0 ~ 50 °C)			
	VIBRATION	10 ~ 500Hz, 2G 10min./1cycle, period for 60min. each along X, Y, Z axes			
	CALETY OTANDADDO	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, GB19510.14, GB19510.1,			
	SAFETY STANDARDS	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			
	ISOLATION RESISTANCE	Parameter	Standard	Test Level/Note	
		Conducted	BS EN/EN55015(CISPR15) ,GB/T 17743		
SAFETY&EMC	EMC EMISSION	Radiated	BS EN/EN55015(CISPR15) ,GB/T 17743		
SAFETY&EMC		Harmonic Current	BS EN/EN61000-3-2, GB17625.1	Class C @load≥60%	
SAFETY&EMC			BS EN/EN61000-3-3		
SAFETY&EMC		Voltage Flicker			
SAFETY&EMC		BS EN/EN61547	Standard	Test Level/Note	
SAFETY&EMC			Standard BS EN/EN61000-4-2	Test Level/Note Level 3, 8KV air ; Level 2, 4KV contact	
SAFETY&EMC		BS EN/EN61547 Parameter ESD Radiated		Level 3, 8KV air ; Level 2, 4KV contact Level 2	
SAFETY&EMC	EMC IMMUNITY	BS EN/EN61547 Parameter ESD Radiated EFT/Burst	BS EN/EN61000-4-2 BS EN/EN61000-4-3 BS EN/EN61000-4-4	Level 3, 8KV air ; Level 2, 4KV contact Level 2 Level 2	
SAFETY&EMC	EMC IMMUNITY	BS EN/EN61547 Parameter ESD Radiated EFT/Burst Surge	BS EN/EN61000-4-2 BS EN/EN61000-4-3 BS EN/EN61000-4-4 BS EN/EN61000-4-5	Level 3, 8KV air ; Level 2, 4KV contact Level 2 Level 2 Level 3, 1KV/Line-Line	
SAFETY&EMC	EMC IMMUNITY	BS EN/EN61547 Parameter ESD Radiated EFT/Burst Surge Conducted	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	Level 3, 8KV air ; Level 2, 4KV contact Level 2 Level 2 Level 3, 1KV/Line-Line Level 2	
SAFETY&EMC	EMC IMMUNITY	BS EN/EN61547 Parameter ESD Radiated EFT/Burst Surge Conducted Magnetic Field	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	Level 3, 8KV air ; Level 2, 4KV contact Level 2 Level 2 Level 3, 1KV/Line-Line	
SAFETY&EMC	EMC IMMUNITY	BS EN/EN61547 Parameter ESD Radiated EFT/Burst Surge Conducted	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	Level 3, 8KV air ; Level 2, 4KV contact Level 2 Level 2 Level 3, 1KV/Line-Line Level 3, 1KV/Line-Line Level 2 Level 2	
SAFETY&EMC	FLICKER Note.9	BS EN/EN61547 Parameter ESD Radiated EFT/Burst Surge Conducted Magnetic Field Voltage Dips and Interruptions PstLM ≤ 1, SVM ≤ 0.4	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/EN61000-4-11	Level 3, 8KV air ; Level 2, 4KV contact Level 2 Level 2 Level 3, 1KV/Line-Line Level 2 Level 2 70% residual voltage for 10	
		BS EN/EN61547 Parameter ESD Radiated EFT/Burst Surge Conducted Magnetic Field Voltage Dips and Interruptions	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	Level 3, 8KV air ; Level 2, 4KV contact Level 2 Level 2 Level 3, 1KV/Line-Line Level 2 Level 2 70% residual voltage for 10	
	FLICKER Note.9	BS EN/EN61547 Parameter ESD Radiated EFT/Burst Surge Conducted Magnetic Field Voltage Dips and Interruptions PstLM ≤ 1, SVM ≤ 0.4	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/EN61000-4-11	Level 3, 8KV air ; Level 2, 4KV contact Level 2 Level 2 Level 3, 1KV/Line-Line Level 2 Level 2 70% residual voltage for 10	
	FLICKER Note.9 MTBF	BS EN/EN61547 Parameter ESD Radiated EFT/Burst Surge Conducted Magnetic Field Voltage Dips and Interruptions PstLM ≤ 1, SVM ≤ 0.4 4130.5K hrs min. Telcordia SR-332 (Bellcore)	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/EN61000-4-11 317.7Khrs min. MIL-HDBK-217F (25°C)	Level 3, 8KV air ; Level 2, 4KV contact Level 2 Level 2 Level 3, 1KV/Line-Line Level 2 Level 2 70% residual voltage for 10 period, 0% residual voltage for 0.5 periods	
	FLICKER Note.9 MTBF DIMENSION PACKING	$\begin{array}{l} \text{BS EN/EN61547} \\ \hline \textbf{Parameter} \\ \hline \textbf{ESD} \\ \text{Radiated} \\ \hline \textbf{EFT/Burst} \\ \hline \textbf{Surge} \\ \hline \textbf{Conducted} \\ \hline \textbf{Magnetic Field} \\ \hline \textbf{Voltage Dips and Interruptions} \\ \hline \textbf{PstLM} \leqslant 1, \text{SVM} \leqslant 0.4 \\ \hline \textbf{4130.5K hrs min. Telcordia SR-332 (Bellcore)} \\ 176^*45^*32mm, 136^*45^*32mm (L^*W^*H) \\ \hline \textbf{0.32Kg; 40pcs/13.8Kg/0.48CUFT(for XLC-60)} \end{array}$	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/EN61000-4-6 BS EN/EN61000-4-11 317.7Khrs min. MIL-HDBK-217F (25°C) Series); 0.39Kg; 40pcs/16.6Kg/0.61CUI	Level 3, 8KV air ; Level 2, 4KV contact Level 2 Level 2 Level 3, 1KV/Line-Line Level 2 Level 2 70% residual voltage for 10 period, 0% residual voltage for 0.5 periods	
	FLICKER Note.9 MTBF DIMENSION PACKING 1. All parameters NOT sp 2. De-rating may be need	$\begin{array}{l} \text{BS EN/EN61547} \\ \hline \textbf{Parameter} \\ \hline \text{ESD} \\ \hline \text{Radiated} \\ \hline \text{ET7/Burst} \\ \hline \text{Surge} \\ \hline \text{Conducted} \\ \hline \text{Magnetic Field} \\ \hline \text{Voltage Dips and Interruptions} \\ \hline \text{PstLM} \leq 1, \text{SVM} \leq 0.4 \\ \hline \text{4130.5K hrs min. Telcordia SR-332 (Bellcore)} \\ \hline 176*45*32 \text{mm}, 136*45*32 \text{mm} (L*W*H) \\ \hline 0.32 \text{Kg}; 40 \text{pcs/13.8 Kg}/0.4 \text{8CUFT(for XLC-60)} \\ \hline \text{ecially mentioned are measured at 23} \\ \hline \text{ed under low input voltages. Please measured} \end{array}$	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/EN61000-4-11 317.7Khrs min. MIL-HDBK-217F (25°C) Series); 0.39Kg; 40pcs/16.6Kg/0.61CUI 0VAC input, rated current and 25°C offer to "STATIC CHARACTERISTIC"	Level 3, 8KV air ; Level 2, 4KV contact Level 2 Level 2 Level 3, 1KV/Line-Line Level 2 Level 2 70% residual voltage for 10 period, 0% residual voltage for 0.5 periods	
	FLICKER Note.9 MTBF DIMENSION PACKING 1. All parameters NOT sp 2. De-rating may be need 3. Length of set up time is	$\begin{array}{l} \text{BS EN/EN61547} \\ \hline \textbf{Parameter} \\ \hline \text{ESD} \\ \hline \text{Radiated} \\ \hline \text{EFT/Burst} \\ \hline \text{Surge} \\ \hline \text{Conducted} \\ \hline \text{Magnetic Field} \\ \hline \text{Voltage Dips and Interruptions} \\ \hline \text{PstLM} \leq 1, \text{SVM} \leq 0.4 \\ \hline 4130.5K hrs min. Telcordia SR-332 (Bellcore) \\ 176*45*32mm , 136*45*32mm (L*W*H) \\ \hline 0.32Kg; 40pcs/13.8Kg/0.48CUFT(for XLC-60) \\ \hline \text{ecially mentioned are measured at 23} \\ \hline \text{ed under low input voltages. Please resonance and the start. Turning 0 \\ \hline \ \text{Start Start Cold start. Turning 0 } \\ \hline \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \$	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/EN61000-4-11 317.7Khrs min. MIL-HDBK-217F (25°C) Series); 0.39Kg; 40pcs/16.6Kg/0.61CUI OVAC input, rated current and 25°C cefer to "STATIC CHARACTERISTIC" ON/OFF the driver may lead to increated	Level 3, 8KV air ; Level 2, 4KV contact Level 2 Level 2 Level 3, 1KV/Line-Line Level 2 Level 2 70% residual voltage for 10 period, 0% residual voltage for 0.5 periods T(for XLC-60-S Series); of ambient temperature. sections for details.	
	FLICKER Note.9 MTBF DIMENSION PACKING 1. All parameters NOT sp 2. De-rating may be need 3. Length of set up time is 4. Current ripple is measu	$\begin{array}{l} \text{BS EN/EN61547} \\ \hline \textbf{Parameter} \\ \hline \textbf{ESD} \\ \hline \textbf{Radiated} \\ \hline \textbf{EFT/Burst} \\ \hline \textbf{Surge} \\ \hline \textbf{Conducted} \\ \hline \textbf{Magnetic Field} \\ \hline \textbf{Voltage Dips and Interruptions} \\ \hline \textbf{PstLM} \leqslant 1, \text{SVM} \leqslant 0.4 \\ \hline \textbf{4130.5K hrs min. Telcordia SR-332 (Bellcore)} \\ \hline \textbf{176*45*32mm}, \textbf{136*45*32mm}(L*W*H) \\ \hline \textbf{0.32Kg; 40pcs/13.8Kg/0.48CUFT(for XLC-60)} \\ \hline \textbf{ecially mentioned are measured at 23} \\ \hline \textbf{ed under low input voltages. Please rest measured at first cold start. Turning 0 \\ \hline \textbf{tred 50\%~100\% of maximum voltage} \\ \hline For the start $	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/EN61000-4-11 317.7Khrs min. MIL-HDBK-217F (25°C) Series); 0.39Kg; 40pcs/16.6Kg/0.61CUI OVAC input, rated current and 25°C cefer to "STATIC CHARACTERISTIC" ON/OFF the driver may lead to increated	Level 3, 8KV air ; Level 2, 4KV contact Level 2 Level 2 Level 3, 1KV/Line-Line Level 2 Level 2 70% residual voltage for 10 period, 0% residual voltage for 0.5 periods T(for XLC-60-S Series); of ambient temperature. sections for details.	
	FLICKER Note.9 MTBF DIMENSION PACKING 1. All parameters NOT sp 2. De-rating may be need 3. Length of set up time is 4. Current ripple is measu 5. Standby power consum	$\begin{array}{l} BS EN/EN61547\\ \hline \textbf{Parameter}\\ \hline ESD\\ \hline Radiated\\ \hline EFT/Burst\\ \hline Surge\\ \hline Conducted\\ \hline Magnetic Field\\ \hline Voltage Dips and Interruptions\\ \hline PstLM \leqslant 1, SVM \leqslant 0.4\\ \hline 4130.5K hrs min. Telcordia SR-332 (Bellcore)\\ 176*45*32mm, 136*45*32mm (L*W*H)\\ \hline 0.32Kg; 40pcs/13.8Kg/0.48CUFT(for XLC-60)\\ \hline ecially mentioned are measured at 23\\ ed under low input voltages. Please rest measured at first cold start. Turning 6 areasured at first cold start. Turning 6 areasured at 230VAC.\\ \hline \end{array}$	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/EN61000-4-11 317.7Khrs min. MIL-HDBK-217F (25°C) Series); 0.39Kg; 40pcs/16.6Kg/0.61CUI 0VAC input, rated current and 25°C offer to "STATIC CHARACTERISTIC" ON/OFF the driver may lead to increase under rated power delivery.	Level 3, 8KV air ; Level 2, 4KV contact Level 2 Level 2 Level 3, 1KV/Line-Line Level 2 To% residual voltage for 10 period, 0% residual voltage for 0.5 periods	
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60W Multiple-Stage Constant Power/Constant Voltage LED Driver





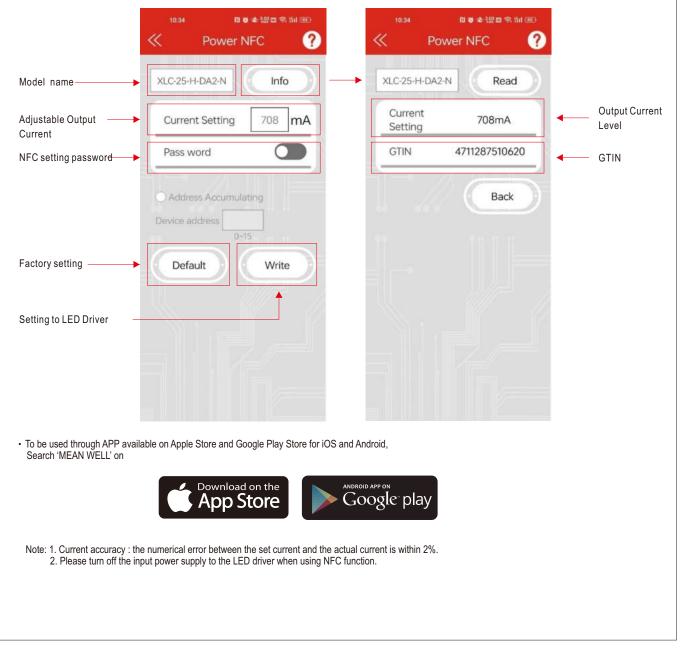
NFC Function Description

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[™] 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:

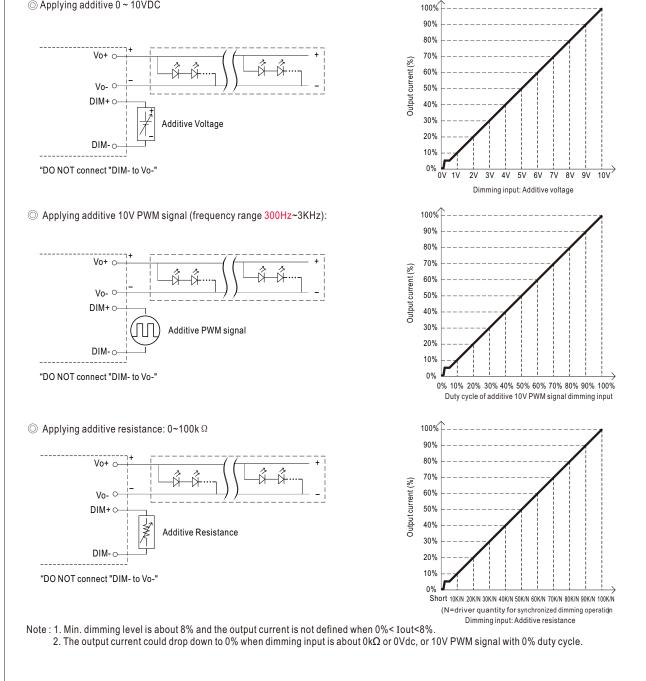




DIMMING OPERATION

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.
- Direct connecting to LEDs is suggested. It is not suitable to be used with additional drivers.
- Dimming source current from power supply: $100 \mu A (typ.)$
- Applying additive 0 ~ 10VDC

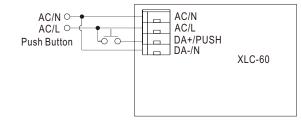


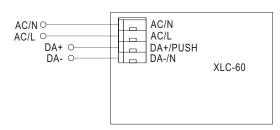


DIMMING OPERATION

◎ DA2 type (DALI-2 digital dimming function)

※ Input wiring diagram





※PUSH dimming (primary side)

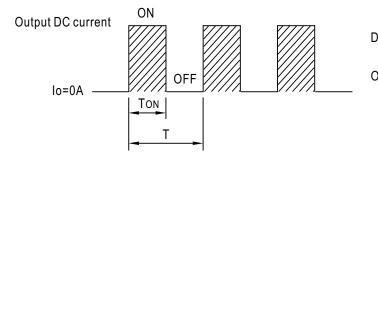
- The factory default dimming level is at 100%.
- If the push action lasts less than 0.05 sec., it will not lead to a change for the status of the driver.
- Up to 10 drivers can perform the PUSH dimming at the same time when utilizing one common push button.
- The maximum length of the cable from the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

PWM OUTPUT DIMMING PRINCIPLE

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

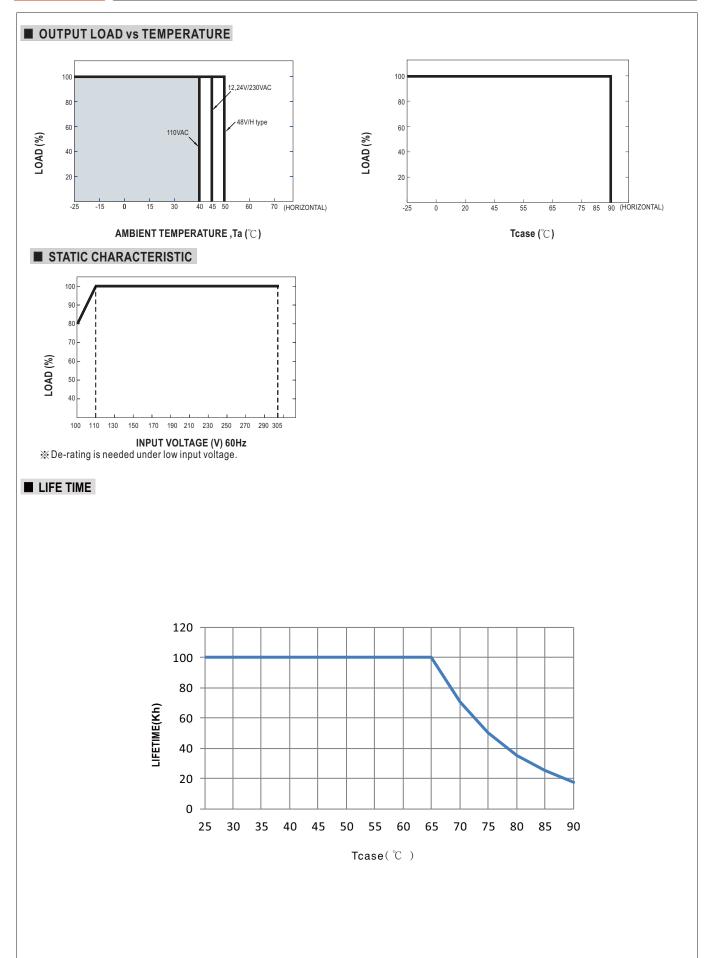
• Dimming is achieved by varying the duty cycle of the output current.



Outy cycle(%) =
$$\frac{\text{TON}}{T} \times 100\%$$

Output PWM frequency : 4kHz for B-Type fixed (Typ.) 3.2kHz for DA2-Type fixed (Typ.)

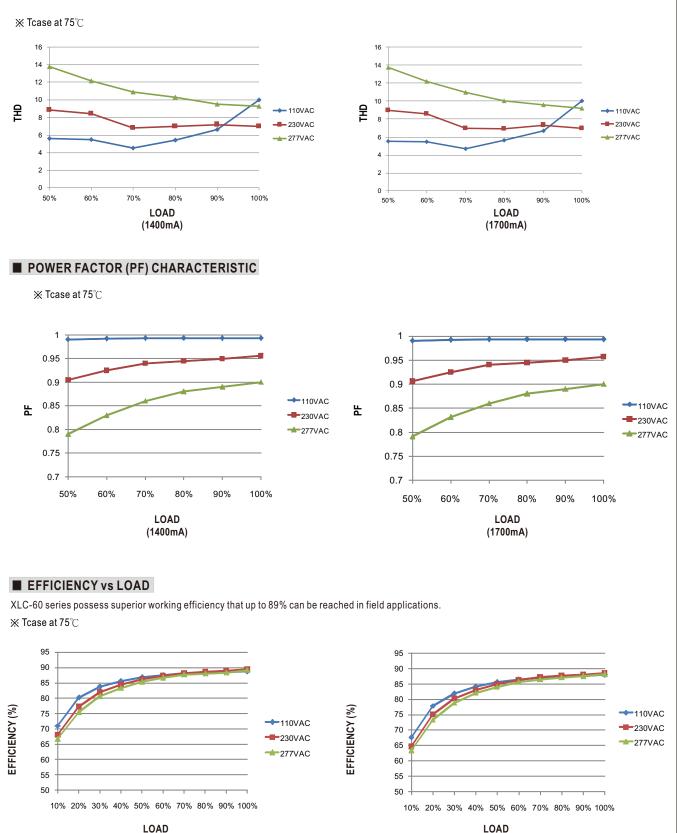






TOTAL HARMONIC DISTORTION (THD)

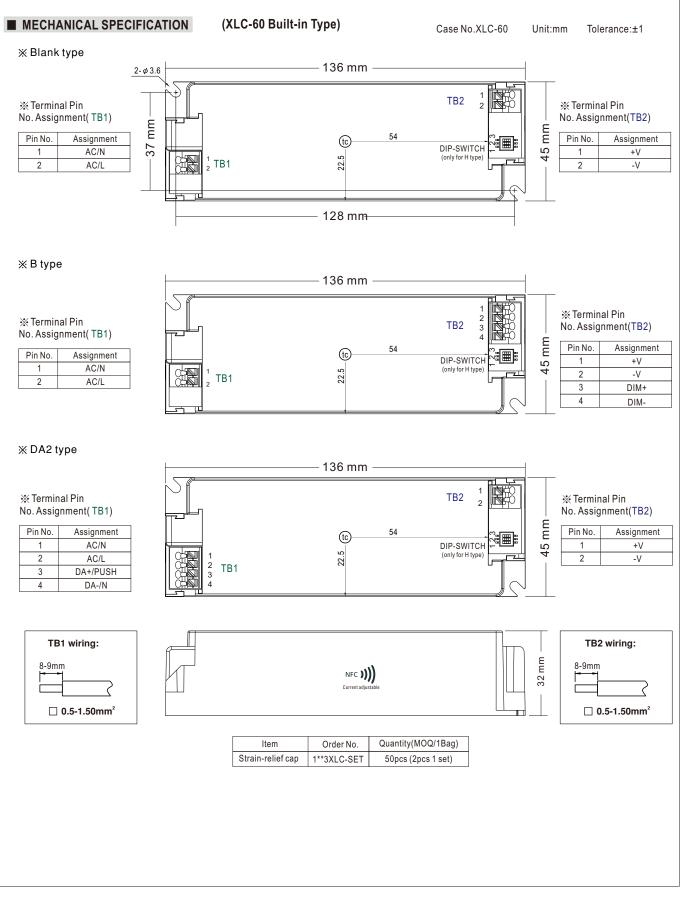
(1400mA)



File Name:XLC-60-SPEC 2024-09-25

(1700mA)





File Name:XLC-60-SPEC 2024-09-25



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

XLC-60 series

