





XLC-25-MA Series (Built-in type)





























Features

- Constant power mode output with multiple stage selectable by DIP switch
- · Plastic housing with class II and PFC design
- · Flicker free, complying with CE ErP directive
- Standby power consumption <0.5W
- · Meet emergency lighting (EL) application
- Minimum dimming level 0.5%
- · Matter over thread, Matter 1.3 specification
- 5 years warranty

Applications

- · Recessed Light
- · Down Light
- · Panel Light
- · Commercial Lighting
- · Decorative Lighting
- · Matter wireless Lighting

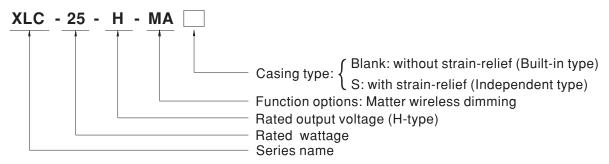
GTIN CODE

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

Description

XLC-25-MA series is a 25W with constant power output LED driver. It can operate from 100~305VAC and output current ranging between 300 mA to 1050 mA selectable by DIP switch .Thanks to high efficiency up to 88%, it is able to operate for -25°C ~85°C case temperature under free air convection. XLC-25-MA series is designed based on latest safety regulations with Matter wireless dimming. It provides more flexibility for LED Lighting application.

Model Encoding



Type	Function	Note
MA	Output current selectable by DIP switch, without strain-relief (Built-in type)	In stock
MAS	Output current selectable by DIP switch, with strain-relief (Independent type)	In stock



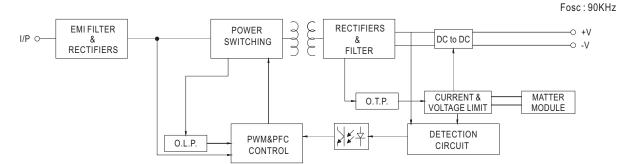
25W Multiple-Stage Constant Power LED Driver

ODEL		XLC-25-H-MA			
	OPEN CIRCUIT VOLTAGE Note.2	60V	60V		
	DEFAULT CURRENT	700mA			
	CURRENT ADJ.RANGE (BY DIP SWITCH)	0.3~1.05A			
UTPUT	CONSTANT CURRENT Note.3	9~54V			
	RATED POWER Note.4				
	CURRENT RIPPLE	<4%(@full load)			
	CURRENT TOLERANCE	±5%			
	DIMMING RANGE	0~100%	(45)/AO		
	VOLTAGE RANGE	2500ms, 100ms/230VAC, 2500ms, 100ms/115VAC 100~305VAC 141~400VDC			
ŀ	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)			
INPUT	EFFICIENCY (Typ.) Note.6				
01	AC CURRENT		A/277VAC		
	INRUSH CURRENT(Typ.)	COLD START 10A(twidth=100µs measured	at 50% Ipeak) at 230VAC; Per NEMA 410		
	MAX. No. of PSUs on 16A CIRCUIT BREAKER	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.7	, ,	<u> </u>		
TECTION	SHORT CIRCUIT	Hiccup mode, recovers automatically after f		. C. 10	
	OVER TEMPERATURE		De-rating to 50% loading. Recovers automatically afte	r tault condition is removed.	
ŀ	WORKING TEMP. MAX. CASE TEMP.	Tcase=-25 ~ 85°C (Please refer to "OUTPUT LOAD vs TEMPERATURE" section) Tcase=85°C			
-	WORKING HUMIDITY	20 ~ 90% RH non-condensing			
ENVIRONMENT		-40 ~ +80°C, 10 ~ 95% RH			
	STURAGE LEWIP., HUWIDITT	-40 ~ +80℃, 10 ~ 95% RH			
	STORAGE TEMP., HUMIDITY TEMP. COEFFICIENT	-40 ~ +80°C, 10 ~ 95% RH ±0.03%/°C (0 ~ 50°C)			
			Omin. each along X, Y, Z axes		
	TEMP. COEFFICIENT	±0.03%/°C (0 ~ 50°C) 10 ~ 500Hz, 2G 10min./1cycle, period for 6 ENEC BS EN/EN61347-1, BS EN/EN6134	Omin. each along X, Y, Z axes 7-2-13(EL) appendix J suitable for emergency instal 510.213; EAC TP TC 004; CSA C22.2 No. 250.13-12		
	TEMP. COEFFICIENT VIBRATION	±0.03%/°C (0 ~ 50°C) 10 ~ 500Hz, 2G 10min./1cycle, period for 6 ENEC BS EN/EN61347-1, BS EN/EN6134 BS EN/EN62384; GB/T 19510.1, GB/T 195	7-2-13(EL) appendix J suitable for emergency instal		
	TEMP. COEFFICIENT VIBRATION SAFETY STANDARDS	±0.03%/°C (0 ~ 50°C) 10 ~ 500Hz, 2G 10min./1cycle, period for 6 ENEC BS EN/EN61347-1, BS EN/EN6134 BS EN/EN62384; GB/T 19510.1, GB/T 19 61347-1, AS/NZS 61347-2-13;	7-2-13(EL) appendix J suitable for emergency instal 510.213; EAC TP TC 004; CSA C22.2 No. 250.13-12		
	TEMP. COEFFICIENT VIBRATION SAFETY STANDARDS WITHSTAND VOLTAGE	±0.03%/°C (0 ~ 50°C) 10 ~ 500Hz, 2G 10min./1cycle, period for 6 ENEC BS EN/EN61347-1, BS EN/EN6134 BS EN/EN62384; GB/T 19510.1, GB/T 19: 61347-1, AS/NZS 61347-2-13; I/P-O/P: 3.75KVAC	7-2-13(EL) appendix J suitable for emergency instal 510.213; EAC TP TC 004; CSA C22.2 No. 250.13-12		
	TEMP. COEFFICIENT VIBRATION SAFETY STANDARDS WITHSTAND VOLTAGE	±0.03%/°C (0 ~ 50°C) 10 ~ 500Hz, 2G 10min./1cycle, period for 6 ENEC BS EN/EN61347-1, BS EN/EN6134 BS EN/EN62384; GB/T 19510.1, GB/T 19: 61347-1, AS/NZS 61347-2-13; I/P-O/P: 3.75KVAC I/P-O/P: >100M Ohms / 500VDC / 25°C / 70	7-2-13(EL) appendix J suitable for emergency instal 510.213; EAC TP TC 004; CSA C22.2 No. 250.13-12:	approved; Design refer to AS/NZS	
	TEMP. COEFFICIENT VIBRATION SAFETY STANDARDS WITHSTAND VOLTAGE	±0.03%/°C (0 ~ 50°C) 10 ~ 500Hz, 2G 10min./1cycle, period for 6 ENEC BS EN/EN61347-1, BS EN/EN6134 BS EN/EN62384; GB/T 19510.1, GB/T 19: 61347-1, AS/NZS 61347-2-13; I//P-O/P: 3.75KVAC I//P-O/P: >100M Ohms / 500VDC / 25°C / 70 Parameter	7-2-13(EL) appendix J suitable for emergency instal 510.213; EAC TP TC 004; CSA C22.2 No. 250.13-12: 0% RH	approved; Design refer to AS/NZS Test Level/Note	
	TEMP. COEFFICIENT VIBRATION SAFETY STANDARDS WITHSTAND VOLTAGE ISOLATION RESISTANCE	±0.03%/°C (0 ~ 50°C) 10 ~ 500Hz, 2G 10min./1cycle, period for 6 ENEC BS EN/EN61347-1, BS EN/EN6134 BS EN/EN62384; GB/T 19510.1, GB/T 19: 61347-1, AS/NZS 61347-2-13; I//P-O/P: 3.75KVAC I//P-O/P: >100M Ohms / 500VDC / 25°C / 70 Parameter Conducted	7-2-13(EL) appendix J suitable for emergency instal 510.213; EAC TP TC 004; CSA C22.2 No. 250.13-12: 0% RH Standard BS EN/EN55015(CISPR15), GB/T 17743	approved; Design refer to AS/NZS Test Level/Note	
AFETY	TEMP. COEFFICIENT VIBRATION SAFETY STANDARDS WITHSTAND VOLTAGE ISOLATION RESISTANCE	±0.03%/°C (0 ~ 50°C) 10 ~ 500Hz, 2G 10min./1cycle, period for 6 ENEC BS EN/EN61347-1, BS EN/EN6134 BS EN/EN62384; GB/T 19510.1, GB/T 19: 61347-1, AS/NZS 61347-2-13; I//P-O/P: 3.75KVAC I//P-O/P: >100M Ohms / 500VDC / 25°C / 70 Parameter Conducted Radiated	7-2-13(EL) appendix J suitable for emergency instal 510.213; EAC TP TC 004; CSA C22.2 No. 250.13-12: 00% RH Standard BS EN/EN55015(CISPR15), GB/T 17743 BS EN/EN55015(CISPR15), GB/T 17743	Test Level/Note	
AFETY &	TEMP. COEFFICIENT VIBRATION SAFETY STANDARDS WITHSTAND VOLTAGE ISOLATION RESISTANCE	±0.03%/°C (0 ~ 50°C) 10 ~ 500Hz, 2G 10min./1cycle, period for 6 ENEC BS EN/EN61347-1, BS EN/EN6134 BS EN/EN62384; GB/T 19510.1, GB/T 19: 61347-1, AS/NZS 61347-2-13; I//P-O/P: 3.75KVAC I//P-O/P: >100M Ohms / 500VDC / 25°C / 70 Parameter Conducted Radiated Harmonic Current	7-2-13(EL) appendix J suitable for emergency instal 510.213; EAC TP TC 004; CSA C22.2 No. 250.13-12: 0% RH Standard BS EN/EN55015(CISPR15) ,GB/T 17743 BS EN/EN55015(CISPR15) ,GB/T 17743 BS EN/EN61000-3-2 , GB17625.1	Test Level/Note Class C @load≥50%	
AFETY & EMC	TEMP. COEFFICIENT VIBRATION SAFETY STANDARDS WITHSTAND VOLTAGE ISOLATION RESISTANCE	±0.03%/°C (0 ~ 50°C) 10 ~ 500Hz, 2G 10min./1cycle, period for 6 ENEC BS EN/EN61347-1, BS EN/EN6134 BS EN/EN62384; GB/T 19510.1, GB/T 19: 61347-1, AS/NZS 61347-2-13; I/P-O/P: 3.75KVAC I/P-O/P: >100M Ohms / 500VDC / 25°C / 70 Parameter Conducted Radiated Harmonic Current Voltage Flicker	7-2-13(EL) appendix J suitable for emergency instal 510.213; EAC TP TC 004; CSA C22.2 No. 250.13-12: 0% RH Standard BS EN/EN55015(CISPR15) ,GB/T 17743 BS EN/EN55015(CISPR15) ,GB/T 17743 BS EN/EN61000-3-2 , GB17625.1	Test Level/Note Class C @load≥50%	
&	TEMP. COEFFICIENT VIBRATION SAFETY STANDARDS WITHSTAND VOLTAGE ISOLATION RESISTANCE	±0.03%/°C (0 ~ 50°C) 10 ~ 500Hz, 2G 10min./1cycle, period for 6 ENEC BS EN/EN61347-1, BS EN/EN6134 BS EN/EN62384; GB/T 19510.1, GB/T 19: 61347-1, AS/NZS 61347-2-13; I//P-O/P: 3.75KVAC I//P-O/P: >100M Ohms / 500VDC / 25°C / 70 Parameter Conducted Radiated Harmonic Current Voltage Flicker BS EN/EN61547	7-2-13(EL) appendix J suitable for emergency instal 510.213; EAC TP TC 004; CSA C22.2 No. 250.13-12: 00% 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	Test Level/Note Class C @load≥50%	
&	TEMP. COEFFICIENT VIBRATION SAFETY STANDARDS WITHSTAND VOLTAGE ISOLATION RESISTANCE EMC EMISSION	±0.03%/°C (0 ~ 50°C) 10 ~ 500Hz, 2G 10min./1cycle, period for 6 ENEC BS EN/EN61347-1, BS EN/EN6134 BS EN/EN62384; GB/T 19510.1, GB/T 19: 61347-1, AS/NZS 61347-2-13; I//P-O/P: 3.75KVAC I//P-O/P: >100M Ohms / 500VDC / 25°C / 70 Parameter Conducted Radiated Harmonic Current Voltage Flicker BS EN/EN61547 Parameter	7-2-13(EL) appendix J suitable for emergency instal 510.213; EAC TP TC 004; CSA C22.2 No. 250.13-12: 00% 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	Test Level/Note Class C @load≥50% Test Level/Note	
&	TEMP. COEFFICIENT VIBRATION SAFETY STANDARDS WITHSTAND VOLTAGE ISOLATION RESISTANCE	±0.03%/°C (0 ~ 50°C) 10 ~ 500Hz, 2G 10min./1cycle, period for 6 ENEC BS EN/EN61347-1, BS EN/EN6134 BS EN/EN62384; GB/T 19510.1, GB/T 19: 61347-1, AS/NZS 61347-2-13; I//P-O/P: 3.75KVAC I//P-O/P: >100M Ohms / 500VDC / 25°C / 70 Parameter Conducted Radiated Harmonic Current Voltage Flicker BS EN/EN61547 Parameter ESD	7-2-13(EL) appendix J suitable for emergency instal 510.213; EAC TP TC 004; CSA C22.2 No. 250.13-12: 00% 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	Test Level/Note Class C @load≥50% Test Level/Note Level 3, 8KV air ; Level 2, 4KV contact	
&	TEMP. COEFFICIENT VIBRATION SAFETY STANDARDS WITHSTAND VOLTAGE ISOLATION RESISTANCE EMC EMISSION	±0.03%/°C (0 ~ 50°C) 10 ~ 500Hz, 2G 10min./1cycle, period for 6 ENEC BS EN/EN61347-1, BS EN/EN6134 BS EN/EN62384; GB/T 19510.1, GB/T 19: 61347-1, AS/NZS 61347-2-13; I//P-O/P: 3.75KVAC I//P-O/P: >100M Ohms / 500VDC / 25°C / 70 Parameter Conducted Radiated Harmonic Current Voltage Flicker BS EN/EN61547 Parameter ESD Radiated	7-2-13(EL) appendix J suitable for emergency instal 510.213; EAC TP TC 004; CSA C22.2 No. 250.13-12: 00% 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	Test Level/Note Class C @load≥50% Test Level/Note Level 3, 8KV air ; Level 2, 4KV contact Level 2	
&	TEMP. COEFFICIENT VIBRATION SAFETY STANDARDS WITHSTAND VOLTAGE ISOLATION RESISTANCE EMC EMISSION	±0.03%/°C (0 ~ 50°C) 10 ~ 500Hz, 2G 10min./1cycle, period for 6 ENEC BS EN/EN61347-1, BS EN/EN6134 BS EN/EN62384; GB/T 19510.1, GB/T 19: 61347-1, AS/NZS 61347-2-13; I//P-O/P: 3.75KVAC I//P-O/P: >100M Ohms / 500VDC / 25°C / 70 Parameter Conducted Radiated Harmonic Current Voltage Flicker BS EN/EN61547 Parameter ESD Radiated EFT/Burst	7-2-13(EL) appendix J suitable for emergency instal 510.213; EAC TP TC 004; CSA C22.2 No. 250.13-12: 00% 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	Test Level/Note Class C @load≥50% Test Level/Note Level 3, 8KV air ; Level 2, 4KV contact Level 2	
&	TEMP. COEFFICIENT VIBRATION SAFETY STANDARDS WITHSTAND VOLTAGE ISOLATION RESISTANCE EMC EMISSION	±0.03%/°C (0 ~ 50°C) 10 ~ 500Hz, 2G 10min./1cycle, period for 6 ENEC BS EN/EN61347-1, BS EN/EN6134 BS EN/EN62384; GB/T 19510.1, GB/T 19: 61347-1, AS/NZS 61347-2-13; I//P-O/P: 3.75KVAC I//P-O/P: >100M Ohms / 500VDC / 25°C / 70 Parameter Conducted Radiated Harmonic Current Voltage Flicker BS EN/EN61547 Parameter ESD Radiated EFT/Burst Surge	7-2-13(EL) appendix J suitable for emergency instal 510.213; EAC TP TC 004; CSA C22.2 No. 250.13-12: 00% 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	Test Level/Note Class C @load≥50% Test Level/Note Level 3, 8KV air ; Level 2, 4KV contact Level 2	
&	TEMP. COEFFICIENT VIBRATION SAFETY STANDARDS WITHSTAND VOLTAGE ISOLATION RESISTANCE EMC EMISSION EMC IMMUNITY	±0.03%/°C (0 ~ 50°C) 10 ~ 500Hz, 2G 10min./1cycle, period for 6 ENEC BS EN/EN61347-1, BS EN/EN6134 BS EN/EN62384; GB/T 19510.1, GB/T 19: 61347-1, AS/NZS 61347-2-13; I/P-O/P: 3.75KVAC I/P-O/P: >100M Ohms / 500VDC / 25°C / 70 Parameter Conducted Radiated Harmonic Current Voltage Flicker BS EN/EN61547 Parameter ESD Radiated EFT/Burst Surge Conducted Magnetic Field Voltage Dips and Interruptions	7-2-13(EL) appendix J suitable for emergency instal 510.213; EAC TP TC 004; CSA C22.2 No. 250.13-12: 00% RH Standard BS EN/EN55015(CISPR15), GB/T 17743 BS EN/EN55015(CISPR15), GB/T 17743 BS EN/EN61000-3-2, GB17625.1 BS EN/EN61000-3-3 Standard BS EN/EN61000-4-2 BS EN/EN61000-4-2 BS EN/EN61000-4-3 BS EN/EN61000-4-4 BS EN/EN61000-4-5 BS EN/EN61000-4-6	Test Level/Note Class C @load≥50% Test Level/Note Level 3, 8KV air ; Level 2, 4KV contact Level 2	
&	TEMP. COEFFICIENT VIBRATION SAFETY STANDARDS WITHSTAND VOLTAGE ISOLATION RESISTANCE EMC EMISSION EMC IMMUNITY	±0.03%/°C (0 ~ 50°C) 10 ~ 500Hz, 2G 10min./1cycle, period for 6 ENEC BS EN/EN61347-1, BS EN/EN6134 BS EN/EN62384; GB/T 19510.1, GB/T 1951347-1, AS/NZS 61347-2-13; I//P-O/P: 3.75KVAC I//P-O/P: >100M Ohms / 500VDC / 25°C / 70 Parameter Conducted Radiated Harmonic Current Voltage Flicker BS EN/EN61547 Parameter ESD Radiated EFT/Burst Surge Conducted Magnetic Field Voltage Dips and Interruptions Matter 1.3 Specification	7-2-13(EL) appendix J suitable for emergency instal 510.213; EAC TP TC 004; CSA C22.2 No. 250.13-12: 510.213; EAC TP TC 004; CSA C22.2 No. 250.13-12: 510.213; EAC TP TC 004; CSA C22.2 No. 250.13-12: 510.213; EAC TP TC 004; CSA C22.2 No. 250.13-12: 510.213; EAC TP TC 004; CSA C22.2 No. 250.13-12: 510.213; EAC TP TC 004; CSA C22.2 No. 250.13-12: 510.213; EAC TP TC 004; CSA C22.2 No. 250.13-12: 510.213; EAC TP TC 004; CSA C22.2 No. 250.13-12: 510.213; EAC TP TC 004; CSA C22.2 No. 250.13-12: 510.213; EAC TP TC 004; CSA C22.2 No. 250.13-12: 510.213; EAC TP TC 004; CSA C22.2 No. 250.13-12: 510.213; EAC TP TC 004; CSA C22.2 No. 250.13-12: 510.213; EAC TP TC 004; CSA C22.2 No. 250.13-12: 510.213; EAC TP TC 004; CSA C22.2 No. 250.13-12: 510.213; EAC TP TC 004; CSA C22.2 No. 250.13-12: 510.213; EAC TP TC 004; CSA C22.2 No. 250.13-12: 510.213; EAC TP TC 004; E	Test Level/Note Class C @load≥50% Test Level/Note Level 3, 8KV air; Level 2, 4KV contact Level 2 Level 3, 7KV/Line-Line Level 2 Level 2 Level 3	
&	TEMP. COEFFICIENT VIBRATION SAFETY STANDARDS WITHSTAND VOLTAGE ISOLATION RESISTANCE EMC EMISSION EMC IMMUNITY MATTER STANDARD FLICKER Note.8	±0.03%/°C (0 ~ 50°C) 10 ~ 500Hz, 2G 10min./1cycle, period for 6 ENEC BS EN/EN61347-1, BS EN/EN6134 BS EN/EN62384; GB/T 19510.1, GB/T 19: 61347-1, AS/NZS 61347-2-13; I//P-O/P: >1.75KVAC I//P-O/P: >100M Ohms / 500VDC / 25°C / 70 Parameter Conducted Radiated Harmonic Current Voltage Flicker BS EN/EN61547 Parameter ESD Radiated EFT/Burst Surge Conducted Magnetic Field Voltage Dips and Interruptions Matter 1.3 Specification PstLM ≤ 1, SVM ≤ 0.4	7-2-13(EL) appendix J suitable for emergency instal 510.213; EAC TP TC 004; CSA C22.2 No. 250.13-12: 510.213; EAC TP TC 004; CSA C22.2 No. 250.13-12: 510.213; EAC TP TC 004; CSA C22.2 No. 250.13-12: 510.213; EAC TP TC 004; CSA C22.2 No. 250.13-12: 510.213; EAC TP TC 004; CSA C22.2 No. 250.13-12: 510.213; EAC TP TC 004; CSA C22.2 No. 250.13-12: 510.213; EAC TP TC 004; CSA C22.2 No. 250.13-12: 510.213; EAC TP TC 004; CSA C22.2 No. 250.13-12: 510.213; EAC TP TC 004; CSA C22.2 No. 250.13-12: 510.213; EAC TP TC 004; CSA C22.2 No. 250.13-12: 510.213; EAC TP TC 004; CSA C22.2 No. 250.13-12: 510.213; EAC TP TC 004; CSA C22.2 No. 250.13-12: 510.213; EAC TP TC 004; CSA C22.2 No. 250.13-12: 510.213; EAC TP TC 004; CSA C22.2 No. 250.13-12: 510.213; EAC TP TC 004; CSA C22.2 No. 250.13-12: 510.213; EAC TP TC 004; CSA C22.2 No. 250.13-12: 510.213; EAC TP TC 004; E	Test Level/Note Class C @load≥50% Test Level/Note Level 3, 8KV air ; Level 2, 4KV contact Level 2 Level 3, 4KV/Line-Line Level 2 Level 2 Level 3 Level 6 Level 7 Consider the following for 10 Deriod, 0% residual voltage for 0.5 periods	
&	TEMP. COEFFICIENT VIBRATION SAFETY STANDARDS WITHSTAND VOLTAGE ISOLATION RESISTANCE EMC EMISSION MATTER STANDARD FLICKER Note.8 MTBF	±0.03%/°C (0 ~ 50°C) 10 ~ 500Hz, 2G 10min./1cycle, period for 6 ENEC BS EN/EN61347-1, BS EN/EN6134 BS EN/EN62384; GB/T 19510.1, GB/T 1951347-1, AS/NZS 61347-2-13; I//P-O/P: 3.75KVAC I//P-O/P: >100M Ohms / 500VDC / 25°C / 70 Parameter Conducted Radiated Harmonic Current Voltage Flicker BS EN/EN61547 Parameter ESD Radiated EFT/Burst Surge Conducted Magnetic Field Voltage Dips and Interruptions Matter 1.3 Specification PstLM ≤ 1, SVM ≤ 0.4 3949.8 K hrs min. Telcordia SR-332 (Bell	7-2-13(EL) appendix J suitable for emergency instal 510.213; EAC TP TC 004; CSA C22.2 No. 250.13-12: 510.213; EAC TP TC 004; CSA C22.2 No. 250.13-12: 510.213; EAC TP TC 004; CSA C22.2 No. 250.13-12: 510.213; EAC TP TC 004; CSA C22.2 No. 250.13-12: 510.213; EAC TP TC 004; CSA C22.2 No. 250.13-12: 510.213; EAC TP TC 004; CSA C22.2 No. 250.13-12: 510.213; EAC TP TC 004; CSA C22.2 No. 250.13-12: 510.213; EAC TP TC 004; CSA C22.2 No. 250.13-12: 510.213; EAC TP TC 004; CSA C22.2 No. 250.13-12: 510.213; EAC TP TC 004; CSA C22.2 No. 250.13-12: 510.213; EAC TP TC 004; CSA C22.2 No. 250.13-12: 510.213; EAC TP TC 004; CSA C22.2 No. 250.13-12: 510.213; EAC TP TC 004; CSA C22.2 No. 250.13-12: 510.213; EAC TP TC 004; CSA C22.2 No. 250.13-12: 510.213; EAC TP TC 004; CSA C22.2 No. 250.13-12: 510.213; EAC TP TC 004; CSA C22.2 No. 250.13-12: 510.213; EAC TP TC 004; E	Test Level/Note Class C @load≥50% Test Level/Note Level 3, 8KV air ; Level 2, 4KV contact Level 2 Level 3, 4KV/Line-Line Level 2 Level 2 Level 3 Level 6 Level 7 Consider the following for 10 Deriod, 0% residual voltage for 0.5 periods	
& EMC	TEMP. COEFFICIENT VIBRATION SAFETY STANDARDS WITHSTAND VOLTAGE ISOLATION RESISTANCE EMC EMISSION EMC IMMUNITY MATTER STANDARD FLICKER Note.8	±0.03%/°C (0 ~ 50°C) 10 ~ 500Hz, 2G 10min./1cycle, period for 6 ENEC BS EN/EN61347-1, BS EN/EN6134 BS EN/EN62384; GB/T 19510.1, GB/T 1951347-1, AS/NZS 61347-2-13; I//P-O/P: 3.75KVAC I//P-O/P: >100M Ohms / 500VDC / 25°C / 70 Parameter Conducted Radiated Harmonic Current Voltage Flicker BS EN/EN61547 Parameter ESD Radiated EFT/Burst Surge Conducted Magnetic Field Voltage Dips and Interruptions Matter 1.3 Specification PstLM ≤ 1, SVM ≤ 0.4 3949.8 K hrs min. Telcordia SR-332 (Bell 147*40*32mm,107*40*32mm (L*W*H)	7-2-13(EL) appendix J suitable for emergency instal 510.213; EAC TP TC 004; CSA C22.2 No. 250.13-12: 510.213; EAC TP TC 004; CSA C22.2 No. 250.13-12: 510.213; EAC TP TC 004; CSA C22.2 No. 250.13-12: 510.213; EAC TP TC 004; CSA C22.2 No. 250.13-12: 510.213; EAC TP TC 004; CSA C22.2 No. 250.13-12: 510.213; EAC TP TC 004; CSA C22.2 No. 250.13-12: 510.213; EAC TP TC 004; CSA C22.2 No. 250.13-12: 510.213; EAC TP TC 004; CSA C22.2 No. 250.13-12: 510.213; EAC TP TC 004; CSA C22.2 No. 250.13-12: 510.213; EAC TP TC 004; CSA C22.2 No. 250.13-12: 510.213; EAC TP TC 004; CSA C22.2 No. 250.13-12: 510.213; EAC TP TC 004; CSA C22.2 No. 250.13-12: 510.213; EAC TP TC 004; CSA C22.2 No. 250.13-12: 510.213; EAC TP TC 004; CSA C22.2 No. 250.13-12: 510.213; EAC TP TC 004; CSA C22.2 No. 250.13-12: 510.213; EAC TP TC 004; CSA C22.2 No. 250.13-12: 510.213; EAC TP TC 004; E	Test Level/Note Class C @load≥50% Test Level/Note Level 3, 8KV air ; Level 2, 4KV contact Level 2 Level 3, 4KV/Line-Line Level 2 Level 2 Level 3 Level 6 Level 7 Consider the following for 10 Deriod, 0% residual voltage for 0.5 periods	

- 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. Efficiency is measured at 500mA/50V output set by dip-switch.
- 7. Standby power consumption is measured at 230VAC.
- 8. Flicker is measured at full load with LED modules.
- 9. 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. $(as\ available\ on\ https://www.meanwell.com//Upload/PDF/EMI_statement_en.pdf)$
- 10. 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.
- 11. This series meets the typical life expectancy of >50,000 hours of operation when Tcase, particularly 🌀 point (or TMP, per DLC), is about 70°C or less. 12.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).
- 13. For more information, please contact with MEAN WELL sales.
- **Product Liability Disclaimer: For detailed information, please refer to https://www.meanwell.com/serviceDisclaimer.aspx



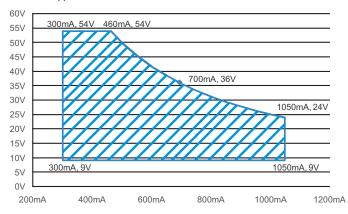
■ BLOCK DIAGRAM



■ DRIVING METHODS OF LED MODULE

○ XLC-25-H-MA

For 25W application



■ CONSTANT POWER TABLE

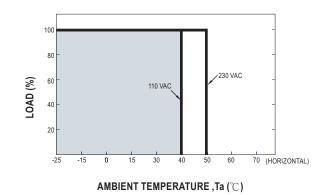
XLC-25-H-MA is a multiple-stage constant power driver, selection of output current through DIP switch is exhibited below.

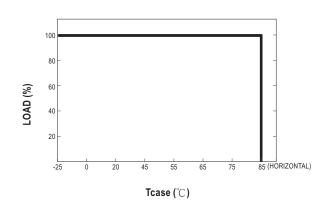
Vo	lo DIP S.W	1	2	3
9~54V	300mA			
9~54V	350mA			ON
9~54V	400mA		ON	
9~50V	500mA		ON	ON
9~42V	600mA	ON		
9~36V	700mA(default)	ON		ON
9~28V	900mA	ON	ON	
9~24V	1050mA	ON	ON	ON

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

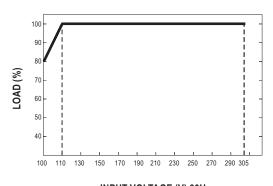


■ OUTPUT LOAD vs TEMPERATURE





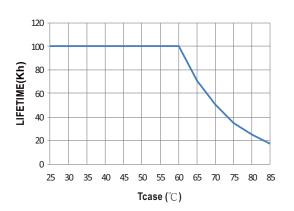
■ STATIC CHARACTERISTIC



INPUT VOLTAGE (V) 60Hz

** De-rating is needed under low input voltage.

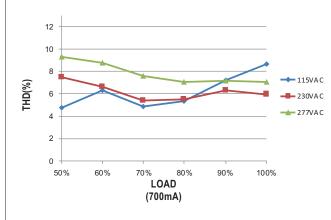
■ LIFE TIME

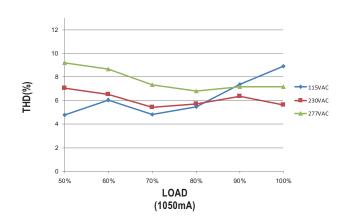




■ TOTAL HARMONIC DISTORTION (THD)

XLC-25-H-MA Modle, Tcase at 75°
 C

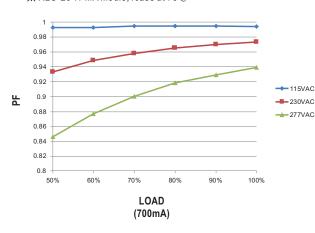


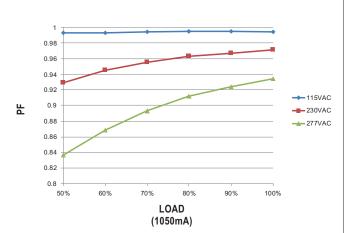


■ POWER FACTOR (PF) CHARACTERISTIC

※ XLC-25-H-MA Modle, Tcase at 75°

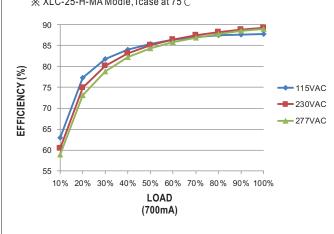
C

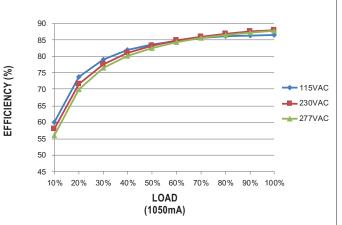




■ EFFICIENCY vs LOAD

XLC-25-MA series possess superior working efficiency that up to 88% can be reached in field applications. \times XLC-25-H-MA Modle, Tcase at 75 $^{\circ}$ C

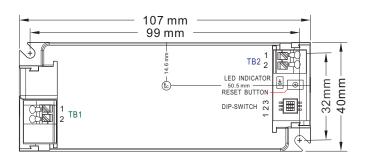






■ MECHANICAL SPECIFICATION

% XLC-25-MA series Built-in Type



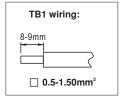
Case No.XLC-25 Unit:mm Tolerance:±1

※ Terminal Pin No. Assignment(TB1)

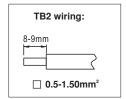
Pin No.	Assignment
1	AC/N
2	AC/L

※ Terminal Pin No. Assignment(TB2)

Pin No.	Assignment
1	+V
2	-V

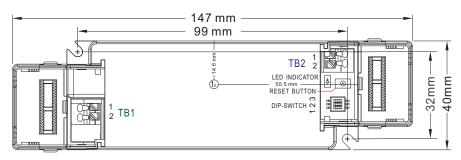






¾ XLC-25-MAS series Independent Type

Case No: XLC-25-S Unit: mm Tolerance:±1

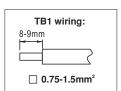


※ Terminal Pin No. Assignment(TB1)

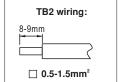
Pin No.	Assignment
1	AC/N
2	AC/L

Terminal Pin No. Assignment(TB2)

	•
Pin No.	Assignment
1	+V
2	-\/







★LED indicator

Flash slowly	Bluetooth Broadcast running
Flash quickly	Factory Reset running.
Constantly ON	Matter wireless connected
Constantly OFF	Matter wireless disconnected and Bluetooth Broadcast OFF



■ FACTORY RESET

% By RESET BUTTON

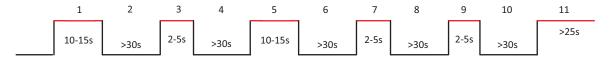
Press and hold the reset button for 10 seconds. When the LED indicator flashes quickly, release the button. The factory reset will then be completed.



※ By AC ON/OFF

To perform factory reset through AC ON/OFF, the following process must be strictly followed. If the AC ON/OFF process is correct, the output light will flash for 15 seconds. When the flashing stop, it means the factory reset is completed. This operation is consistent with the factory reset effect performed by long-pressing the reset button.

AC ON/OFF process to executes factory reset:



Phase	Duration	AC status
1	10-15s	ON
2	>30s	OFF
3	2-5s	ON
4	>30s	OFF
5	10-15s	ON
6	>30s	OFF
7	2-5s	ON
8	>30s	OFF
9	2-5s	ON
10	>30s	OFF
11	>25s	ON(should wait until output light stop flashing)

If there is a malfunction in the 'AC ON/OFF process', the process can be reset by the following method, starting from stage 1 again.

Method 1: AC ON time exceeds 25 seconds

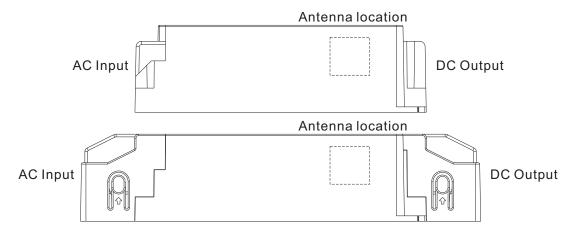
Method 2: AC ON times for 2-5s and twice



■ PLACEMENT

Matter device has an integrated antenna for easy integration. In order to maximize the range in every direction, some design guidelines should be taken into consideration when mounting the device.

The antenna positions of the device are shown in the figure below:



- Keep the device as far away as possible from vertical metal structures.
- When the device is mounted on a metal plate, the antenna should not be obscured, and there needs to be a cutout under the antenna to ensure that the RF signal can be transmitted.
- The device's communication range may be influenced by environmental factors and installation positioning, necessitating on-site adjustments and testing.

■ Installation Manual

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