

Наличие и актуальные цены на

XLN-60-48-B

https://www.mean-well.ru/store/XLN-60-48-B/







(Independent type)































Features

- · Constant power mode output with multiple stage selectable by NFC setting (H-type)
- Constant voltage mode output available(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
- Fully encapsulated with IP67
- Minimum dimming level 0.1% (DALI-2 DT6)
- Dimming functions: 3 in 1 dimming (Dim-to-off) DALI-2 + Push dimming
- 5 years warranty

Applications

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

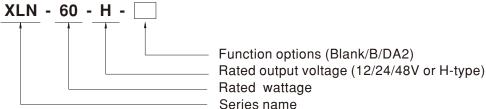
GTIN CODE

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

Description

XLN-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 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. XLN-60 is designed based on latest safety regulation with 3 in 1 and DALI-2 dimming. XLN-60 can be adjusted for brightness with a push button as a simple way dimming, so it provides more flexibility for LED Lighting application.

Model Encoding



Type	Function	Note
Blank	H type output current selectable by NFC setting with constant power mode	
Dialik	12, 24, 48V Constant voltage output	
В	H type output current selectable by NFC setting and built-in 3 in 1 dimming	1 1 1
	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 NFC setting and built-in DALI-2 dimming	
	12, 24, 48V Constant voltage output and built-in DALI-2(PWM Style output)	

Note: 1. 12/24/48V output is fixed without NFC Function.

2. For more current setting, please contact MW sales representative.

SPECIFICATION

SPECIFICATION	UN					
MODEL		XLN-60-12-	XLN-60-24-	XLN-60-48-		
	DC VOLTAGE	12V		48V		
	DEFAULT CURRENT	5A	2.5A	1.25A		
OUTPUT	RATED POWER	60W	60W	60W		
	SETUP,RISE TIME	800ms,180ms/230VAC ,1000ms,180ms		3011		
	VOLTAGE RANGE	100~305VAC 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)				
NPUT	EFFICIENCY(Typ.)	86%		88%		
NF O I	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 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 CONSUMPTION	Standby power consumption<0.5W(Dimming OFF, only for standard version B/DA2-type)				
	OVERLOAD	105~200% rated output power				
	CYENCORD	Protection type: Hiccup mode, recovers	automatically after fault condition is remov	red.		
PROTECTION	SHORT CIRCUIT	Hiccup mode, recovers automatically aft	er fault condition is removed			
ROILCHON	OVER VOLTAGE	14-17V	26-35V	52-63V		
	OVER TOLINGE	Shut down output voltage, re-power on	to recover			
	OVER TEMPERATURE	Shut down output voltage, recovers automatically after fault condition is removed				
	WORKING TEMP.	Tcase=-25~90 $^{\circ}\mathrm{C}$ (Please refer to " OUTF	PUT LOAD vs TEMPERATURE" section)			
	MAX. CASE TEMP.	Tcase=90°C				
NIVIDONIMENT	WORKING HUMIDITY	20 ~ 90% RH non-condensing				
NVIRONMENT	STORAGE TEMP., HUMIDITY					
	TEMP. COEFFICIENT	±0.03%/℃ (0 ~ 50℃)				
	VIBRATION	10 ~ 500Hz, 2G 10min./1cycle, period for 60min. each along X, Y, Z axes				
	SAFETY STANDARDS DALI STANDARDS	UL8750(type "HL" and 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 independent, BIS IS15885(Part2/Sec13)(NOTE 13), GB19510.14, GB19510.1, EAC TP TC 004 approved; Design refer to AS/NZS 61347-1, AS/NZS 61347-2-13 Comply with IEC62386-101, 102, 207				
SAFETY&EMC	WITHSTAND VOLTAGE	I/P-0/P:3.75KVAC				
DAILITALMO	ISOLATION RESISTANCE	I/P-O/P:>100M Ohms / 500VDC / 25°C/	70% RH			
		Parameter	Standard	Test Level/Note		
	EMO EMICCION	Conducted	BS EN/EN55015(CISPR15) ,GB/T 17743			
	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	Total de la contraction de la	T		
		Parameter ESD	Standard 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 Conducted	BS EN/EN61000-4-5 BS EN/EN61000-4-6	Level 3, 1KV/Line-Line 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		poriou, 070 rodiadar rollago los olo politicas		
	MTBF	4053.7K hrs min. Telcordia SR-332 (Bellcore) 329.4Khrs min. MIL-HDBK-217F (25°C)				
OTHERS	DIMENSION	141.5*49*32mm(L*W*H)				
	PACKING	0.49Kg ; 30pcs/15.7Kg/0.81CUFT				
	1. All parameters NOT specially mentioned are measured at 230VAC input, rated current and 25 ℃ of ambient temperature. 2. De-rating may be needed under low input voltages. Please refer to "STATIC CHARACTERISTIC" sections for details. 3. 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.					
10-1	4. Current ripple is measure 5. Standby power consump 6. The driver is considered affected by the complete (as available on https://w 7. The ambient temperature higher than 2000m(6500	ed 50%~100% of maximum voltage untion is measured at 230VAC. as a component that will be operated installation, the final equipment manufww.meanwell.com//Upload/PDF/EMI_sederating of 3.5°C/1000m with fanless ft).	der rated power delivery. n combination with final equipment. Sin facturers must re-qualify EMC Directive statement_en.pdf) models and of 5°C/1000m with fan models.	nce EMC performance will be on the complete installation again.		
NOTE	permanently connected to 9. Flicker is measured at fur 10. RCM is on a voluntary to 11. This series meets the ty is about 75°C or less.	o the mains. Il load with the light source provided by pasis. Non IC classification Independer	nt LED control gear is not suitable for re f operation when Tcase,particularly tc p	esidential installations.		
	13. Products sourced from		ourced from India may not have the BIS	S logo,please refer to BIS certificate		



SPECIFICATION

MODEL		XLN-60-H- □				
	OPEN CIRCUIT VOLTAGE Note15	60V				
	DEFAULT CURRENT	1400mA				
OUTPUT	CURRENT ADJ. RANGE (BY NFC)	0.9~1.7A				
	CONSTANT CURRENT REGION	9~54V				
	RATED POWER	60W				
	CURRENT RIPPLE Note4	<4%				
	CURRENT TOLERANCE	±5%				
	DIMMING RANGE	0~100%				
	SETUP,RISE TIME Note14	800ms,100ms/230VAC ,1000ms,100ms/115VAC				
	VOLTAGE RANGE	100~305VAC 155~400VDC				
	FREQUENCY RANGE	47 ~ 63Hz				
	POWER FACTOR	PF≥0.95/115VAC, PF≥0.95/230VAC, PF≥0.9/277VAC@full load				
	TOTAL HARMONIC DISTORTION	(Please refer to "POWER FACTOR (PF) CHARACTERISTIC" section) THD< 20%(@load ≥60%/230VAC; @load ≥75%/277VAC), THD<10%@load 100%/230VAC (Please refer to "TOTAL HARMONIC DISTORTION(THD)" section)				
	EFFICIENCY(Typ.) Note12	90%				
NPUT	AC CURRENT	0.75A/115VAC, 0.35A/230VAC, 0.3A/2	77\/AC			
		, , ,				
	MAX. NO. of PSUs on 16A CIRCUIT BREAKER	, ,	COLD START 15A(twidth=310µs measured at 50% lpeak) at 230VAC; Per NEMA 410 25 units (circuit breaker of type B) / 36 units (circuit breaker of type C) at 230VAC			
	LEAKAGE CURRENT	<0.75m4/277VAC				
	STANDBY POWER Note5 CONSUMPTION	<0.75mA / 277VAC Standby power consumption<0.5W (Dimming off, only for standard version B/DA2-type)				
PROTECTION		Library made recovers outcomplically often fault and iting is removed				
	SHORT CIRCUIT OVER TEMPERATURE	Hiccup mode, recovers automatically after fault condition is removed DA2 type: Stage 1: Derating to 75% loading; stage2: Derating to 50% loading; Recovers automatically after fault condition is removed				
	OVER TERM EROTTORE	Blank & B type: Derating to lowest output level, Recovers automatically after fault condition is removed				
	WORKING TEMP.	Tcase=-25~90°C (Please refer to "OUTPUT LOAD vs TEMPERATURE" section)				
	MAX. CASE TEMP.	Tcase=90°C				
	WORKING HUMIDITY	20 ~ 90% RH non-condensing				
NVIRONMENT	STORAGE TEMP., HUMIDITY					
	TEMP. COEFFICIENT	-40 ~ +80°C, 10 ~ 95% RH				
	VIBRATION	±0.03%/°C (0 ~ 50°C)	f CO			
	SAFETY STANDARDS	10 ~ 500Hz, 2G 10min./1cycle, period for 60min. each along X, Y, Z axes UL8750(type"HL" and 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 independent, BIS IS15885(Part2/Sec13)(NOTE 13), 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				
	IOOLATION REGISTANCE	Parameter	Standard	Test Level/Note		
		Conducted	BS EN/EN55015(CISPR15) ,GB/T 17743			
AFETY&EMC	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/EN61547	BS EN/EN61000-3-3			
		Parameter	Standard	Test Level/Note		
	EMC IMMUNITY	ESD	BS EN/EN61000-4-2	Level 3, 8KV air; Level 2, 4KV contact		
		Radiated	BS EN/EN61000-4-3	Level 2		
		EFT/Burst Surge	BS EN/EN61000-4-4 BS EN/EN61000-4-5	Level 2 Level 3, 1KV/Line-Line		
		Conducted	BS EN/EN61000-4-5	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 Note9	PstLM ≤ 1, SVM ≤ 0.4				
TUEDE	MTBF	4053.7Khrs min. Telcordia SR-332 (Bellcore) 329.4Khrs min. MIL-HDBK-217F (25℃)				
OTHERS	DIMENSION	141.5*49*32mm (L*W*H)				
	PACKING	0.49Kg; 30pcs/15.7Kg/0.81CUFT				
		0. 1	VAC input, rated current and 25℃ of ambie			

- 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.
- 5. Standby power consumption is measured at 230VAC.

NOTE

- 6. 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°C/1000m with fanless models and of 5°C/1000m with fan models for operating altitude higher than 2000m(6500ft).
- 8. 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.

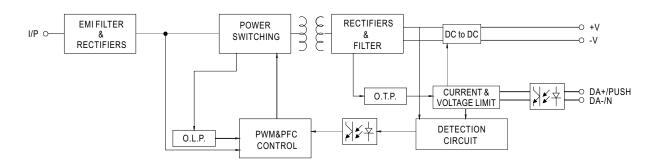
 9. Flicker is measured at full load with the light source provided by MEAN WELL.

 10. RCM is on a voluntary basis. Non IC classification Independent LED control gear is not suitable for residential installations.

- This series meets the typical life expectancy of 50000 hours of operation when Tcase, particularly to point(or TMP, per DLC), is about 75°C or less.
 Efficiency is measured at 1050mA/54V output set by DIP switch.
 Products sourced from the China regions and some models sourced from India may not have the BIS logo, please refer to BIS certificate for details and contact your MEAN WELL sales for more information. 14. Based on IEC 62386-101/102 DALI power on timing and interruption regulations, the set up time needs to test with a DALI controller which can support for DALI power on function, otherwise the start up time will be higher than 0.5 second.
- 15. Output hiccups under no-load condition.(only for H-type).
 16. For more information, please contact with MEAN WELL sales.
- X Product Liability Disclaimer: For detailed information, please refer to https://www.meanwell.com/serviceDisclaimer.aspx File Name:XLN-60-SPEC 2025-01-24



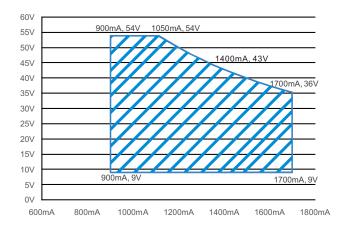
■ BLOCK DIAGRAM



■ DRIVING METHODS OF LED MODULE

○ XLN-60-H

For 60W application



■ CONSTANT POWER TABLE

 $XLN-60-H\ is\ a\ multiple-stage\ constant\ power\ driver,\ selection\ of\ output\ current\ through\ NFC\ setting\ is\ exhibited\ below.$

Vo	lo
9~54V	900mA
9~54V	1050mA
9~50V	1200mA
9~46V	1300mA
9~43V	1400mA(default)
9~40V	1500mA
9~38V	1600mA
9~36V	1700mA

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



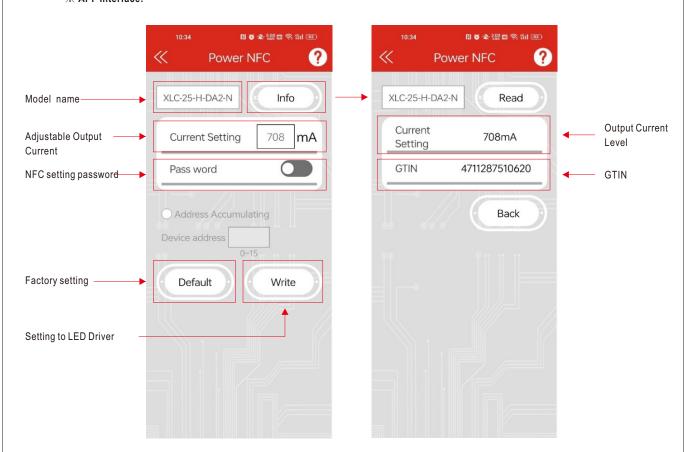
■ NFC Function Description

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™ 4.1 or IOS12 updates.
- · Steps for setting output current via NFC
- 1. Download Meanwell APP on mobile device or mobile phone, and enable NFC function.
- 2. Check the NFC antenna position of the mobile phone please.
- 3. Enter Meanwell APP -> Top left menu Installation Manual/APP-> PowerNFC, approach the LED driver NFC sensing position and perform sensing.
- 4. APP displays the functional parameters, and the relevant parameters are modified as required.
- 5. Tap the APP write button and quickly move the phone antenna close to the NFC sensing position of the LED driver.
- 6. The write completes when the mobile phone displays "Success".

APP Function Description

※ APP Interface:



 To be used through APP available on Apple Store and Google Play Store for iOS and Android, Search 'MEAN WELL' on





- Note: 1. Current accuracy: the numerical error between the set current and the actual current is within 2%.
 - 2. Please turn off the input power supply to the LED driver when using NFC function.

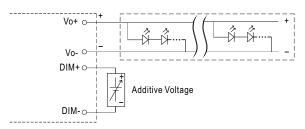


■ DIMMING OPERATION

B type

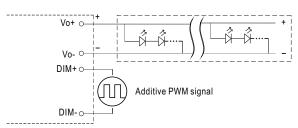
% 3 in 1 dimming function

- Output constant current level can be adjusted by applying one of the three methodologies between DIM+ and DIM-:
 0 ~ 10VDC, or 10V PWM signal or resistance.
- Direct connecting to LEDs is suggested. It is not suitable to be used with additional drivers.
- Dimming source current from power supply: 100 μ A (typ.)



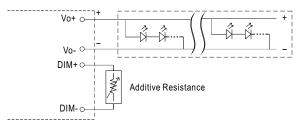
"DO NOT connect "DIM- to Vo-"

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

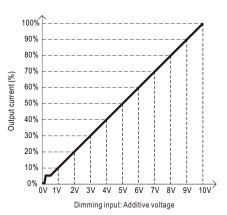


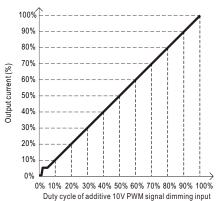
"DO NOT connect "DIM- to Vo-"

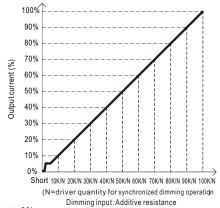
 \bigcirc Applying additive resistance: 0~100k Ω



"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 0kΩ or 0Vdc, or 10V PWM signal with 0% duty cycle.



■ DIMMING OPERATION

O DA2 type (DALI-2 digital dimming function)

※ Input wiring diagram



☆ PUSH dimming (primary side)

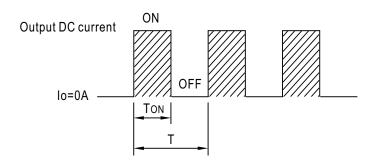
- The factory default dimming level is at 100%.
- If the push action lasts less than 0.05 sec., it will not lead to a change for the status of the driver.
- Up to 10 drivers can perform the PUSH dimming at the same time when utilizing one common push button.
- The maximum length of the cable from the push button to the last driver is 20 meters.

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

■ PWM OUTPUT DIMMING PRINCIPLE

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

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



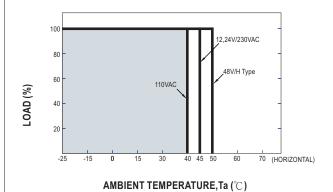
Duty cycle(%) =
$$\frac{\text{ToN}}{\text{T}} \times 100\%$$

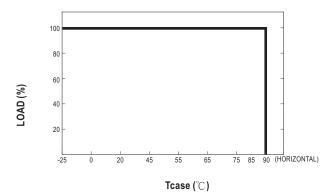
Output PWM frequency:

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



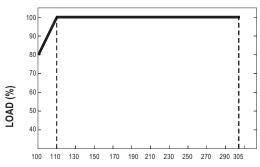
■ OUTPUT LOAD vs TEMPERATURE



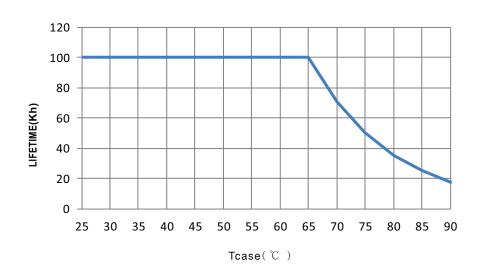


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■ STATIC CHARACTERISTIC



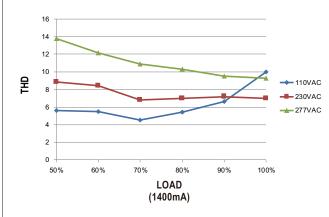
■ LIFE TIME

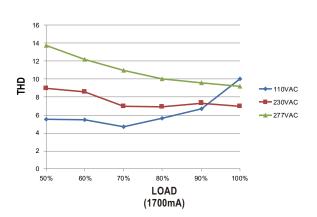




■ TOTAL HARMONIC DISTORTION (THD)

★ Tcase at 75°C

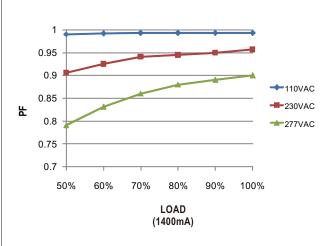


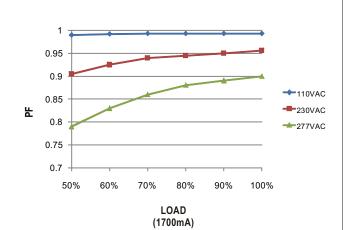


■ POWER FACTOR (PF) CHARACTERISTIC

※ Tcase at 75°

C





■ EFFICIENCY vs LOAD

XLN-60 series possess superior working efficiency that up to 90% can be reached in field applications.

※ Tcase at 75°

C

