

■ Features & benefits:

- Universal AC Input Voltage(120-277Vac)
- Linear form factor, Metal sheet case, Side feed
- Mesh Bluetooth control with BLE module
- Integrated OEM NFC program:Output Current
- Two direction installation
- Suitable for indoor use
- Flicker free, excellent camera compatibility
- UL Class2, UL Class P(E468718)
- Operating temperature: -25°C~+50°C
- Comply with IEEE1789 , title 24, UL8750



RoHS **NFC** 



■ Model List:

Model Name	Rated Input Voltage	Max Output Power	Default Output Current	Adjustable output current	Rated Output Voltage ^a	Note
MAC030D0800UNB	120-277VAC	30W max.	800mA	45-800mA	20-48VDC	Built in Litetrace BLE Module

Note: The Vf of the two channels should be equal.

Model name code:

MAC 0 3 0 D 0 8 0 0 U N B - c c c c
 (1) (2) (3) (4) (5) (6) (7)

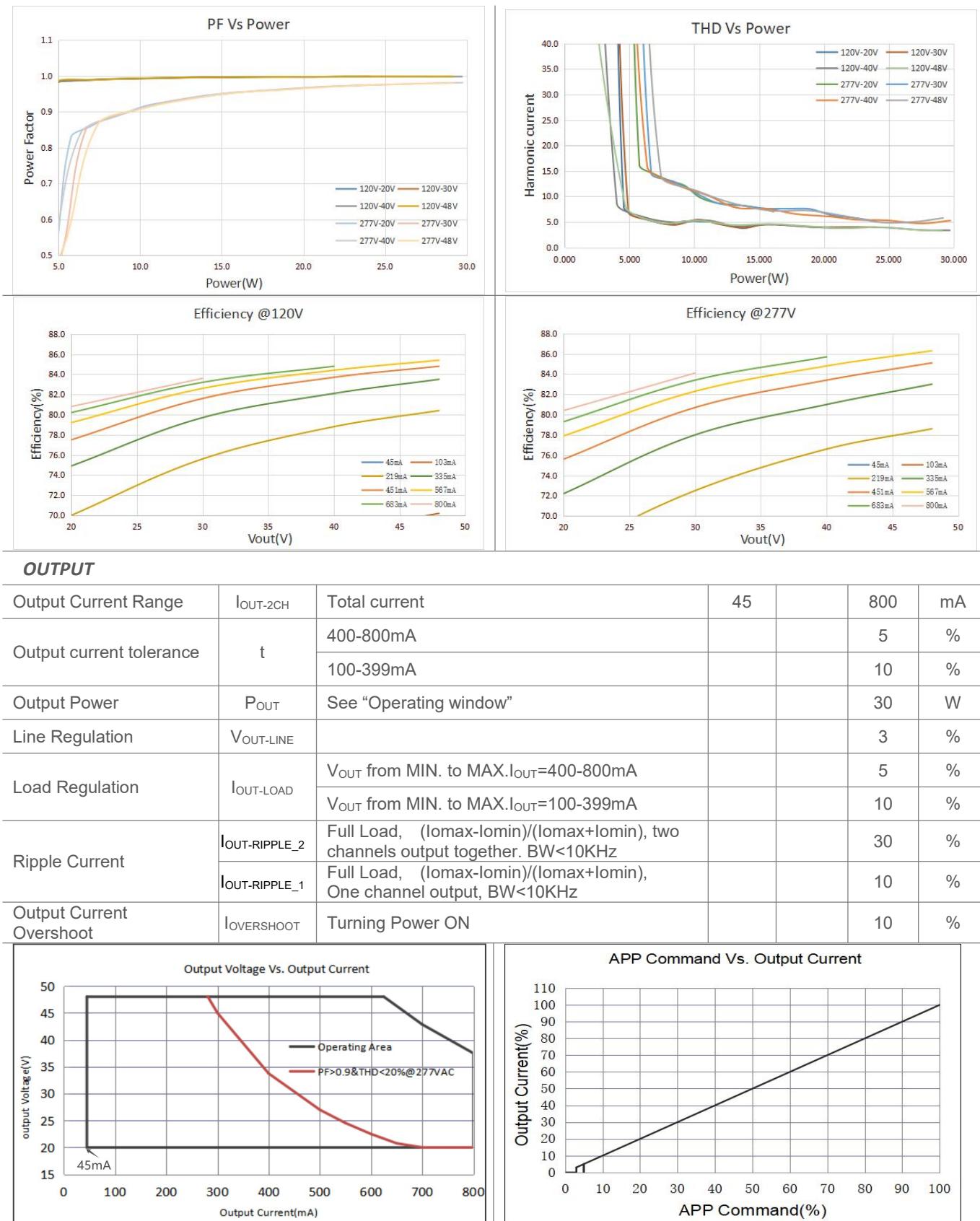
(1)	Series	Linear form factor series driver
(2)	Output channel	Dual output
(3)	Output current	MAX. total output current
(4)	Input voltage	U: 120-277VAC
(5)	programming	N: NFC Programmable
(6)	Control	B: Built in BLE Module
(7)	Internal code	Internal code for ADPower

■ Specification:

Parameters	Symbols	Test Conditions / Comment										Min	Typ	Max	Units
INPUT															
Input Voltage	V_{IN}											108		305	V_{AC}
Rated Input Voltage	$V_{IN\ RATED}$											120		277	V_{AC}
Input Frequency	f_{line}											47	50/60	63	Hz
Input Current	I_{IN}	Full Load, $V_{IN} = 120V_{AC}$												0.33	A
Inrush Current	I_{INRUSH}	Cold Start, $V_{IN} = 277V_{AC}$												40	A
Leakage Current	$I_{Leakage}$	$V_{IN} = 120V_{AC} 60Hz$												0.5	mA
		$V_{IN} = 277V_{AC} 60Hz$												0.75	mA
Number of Drivers per MCB(Circuit Breaker)	MCB type	B10	C10	D10	B13	C13	D13	B16	C16	D16	B20	C20	D20		
	120V _{AC}	25	30	34	33	39	44	41	48	54	51	60	68		
	277V _{AC}	15	26	52	20	33	67	25	41	83	31	52	104		
				Input Voltage				Inrush Current				t(us)10%-10%			
				120V _{AC}				8.65A				262			
				277V _{AC}				21.09A				266			
				347V _{AC}				NA				NA			

General Characteristics

Power Factor	PF	Full load, $V_{IN} = 120V_{AC}$	0.95			PF
		Full load, $V_{IN} = 277V_{AC}$	0.9			
Total Harmonic Distortion	THD	Full load, $V_{IN} = 120V_{AC}$			20	%
		Full load, $V_{IN} = 277V_{AC}$			20	%
Efficiency	η	Vout=48V, Iout=625mA, $V_{IN} = 120V_{AC}$, Steady state	84	85		%
		Vout=48V, Iout=625mA, $V_{IN} = 277V_{AC}$, Steady state	85	86		%
Turn On Delay Time	T_{on_delay}	Cold Start, 400-800mA			1	S
		Cold Start, 100-399mA			2	S



NFC Programming

NFC Programmable Feature	Output current				
Programming tool	FEIG, ID CPR30+		Desktop reader, Please contact ADPower for details.		
	APP of Android OS and iOS		TapTronic APP, Please contact ADPower for details.		
Mini wireless control distance			10		mm

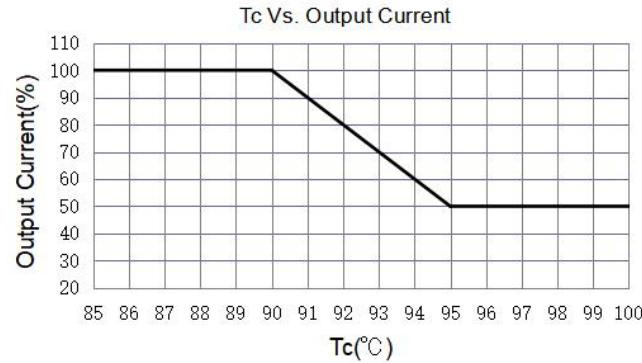
BLE control

A Litetrace BLE module is built in the driver.

APP link	Please contact ADPower for details.					
Dimming range	I _{BT}	Brightness dimming range	6		100	%
	I _{TW}	Tunable white dimming range	1		100	%

Protection

Over Voltage Protection	V _{OVP}	The driver can recover automatically after fault conditions is removed.			60	V
Under Voltage Protection	V _{UVP}	The driver can shut down when input voltage lower than V _{UVP}		90		V
Over Temp. Protection	T _{OTP}	Current foldback at hotspot greater than T _{OTP}		90		°C
Short Circuit Protection		The driver can recover automatically after fault conditions is removed.				



Environment

Storage Temperature	T _{Storage}	Humidity: 5% RH to 95% RH	-40	-	+85	°C
Ambient Operating Temperature	T _a		-25	-	+50	°C
Max. Case Temperature	T _c	Hot spot on case			90	°C
Operating Relative Humidity	H _a	Non-Condensing	10		90	%
Acoustic Noise		Measured from 1 m away.			24	dBA
Cooling		Convection Cooling				
IP Rating		Dry and damp UL approved				

Others

Life Time	T _{Life}	Full Load, 85°C case temperature, V _{IN} = 120/277V _{AC}	50			kHrs
MTBF	T _{MTBF}	Full Load, 25°C ambient temperature V _{IN} = 120/277V _{AC}	200			kHrs
Net Weight	W _{NET}			215		g

Warranty	5 Years Warranty at $T_c \leq 85^\circ\text{C}$
Flicker	Title 24, IEEE1789
	

Safety Compliance

CUL/UL	UL8750, CAN/CSA-C22.2 No. 250.13
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Electromagnetic Compliance

EMC Requirements	Standard	Conditions
EMI Emissions	FCC Title 47 Part 15	Class A
Voltage Fluctuations and Flicker	IEC61000-3-3	
Immunity Compliance	IEC 61000-4-2	±8kV air Discharge, ±6kV Contact Discharge
	IEC 61000-4-5 or ANSI/IEEE C62.41-2002	±2kV Common and ±1kV Differential Mode, test at 2 Ω, 5 strikes/1 minute interval (40 total strikes)
	ANSI/IEEE C62.41.1-2002	2.5kV Ring Wave, test at 30Ω 7 Strikes/1 minute interval, Common and Differential mode, 56 total strikes
	IEC 61000-4-11	>95% dip, .5 period; 30% dip, 25 periods; 95% reduction, 250 periods
	IEC 61000-4-4	± 2kV Direct couple to Line input, 5kHz repetition rate, 15mS duration, 300mS period. 7 coupling paths, 1 minute per path (14 total combinations)

Note: Unless otherwise specified, all the above parameters are measured at ambient temperature of 25°C and rated voltage.

■ Typical Application

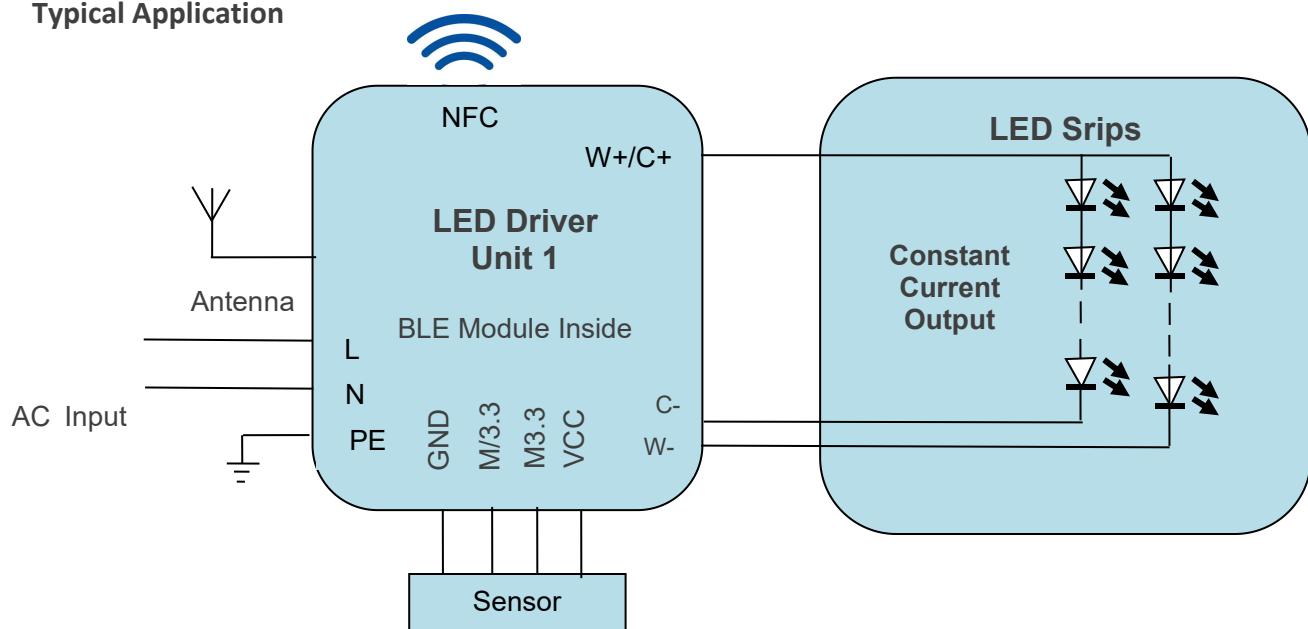
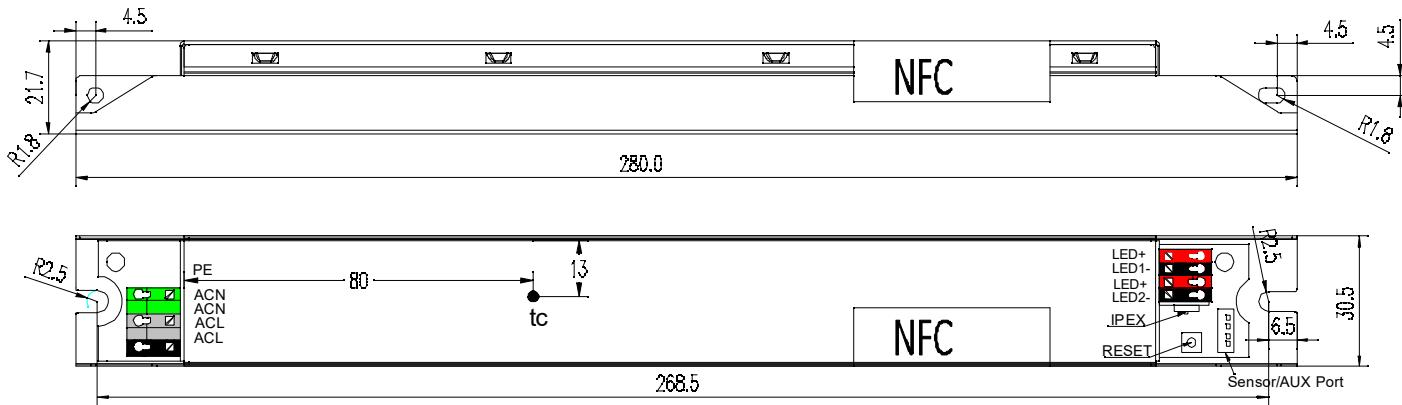


Fig. Typical Application

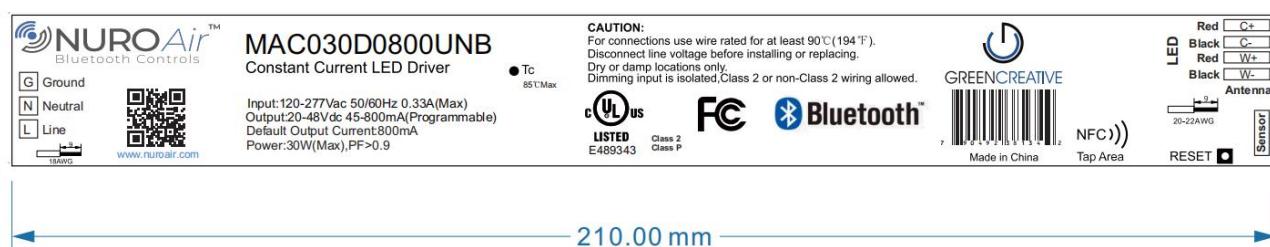
■ Mechanical Drawing:

Dimensions(Unit:mm)

Default tolerance: $\pm 1\text{mm}$

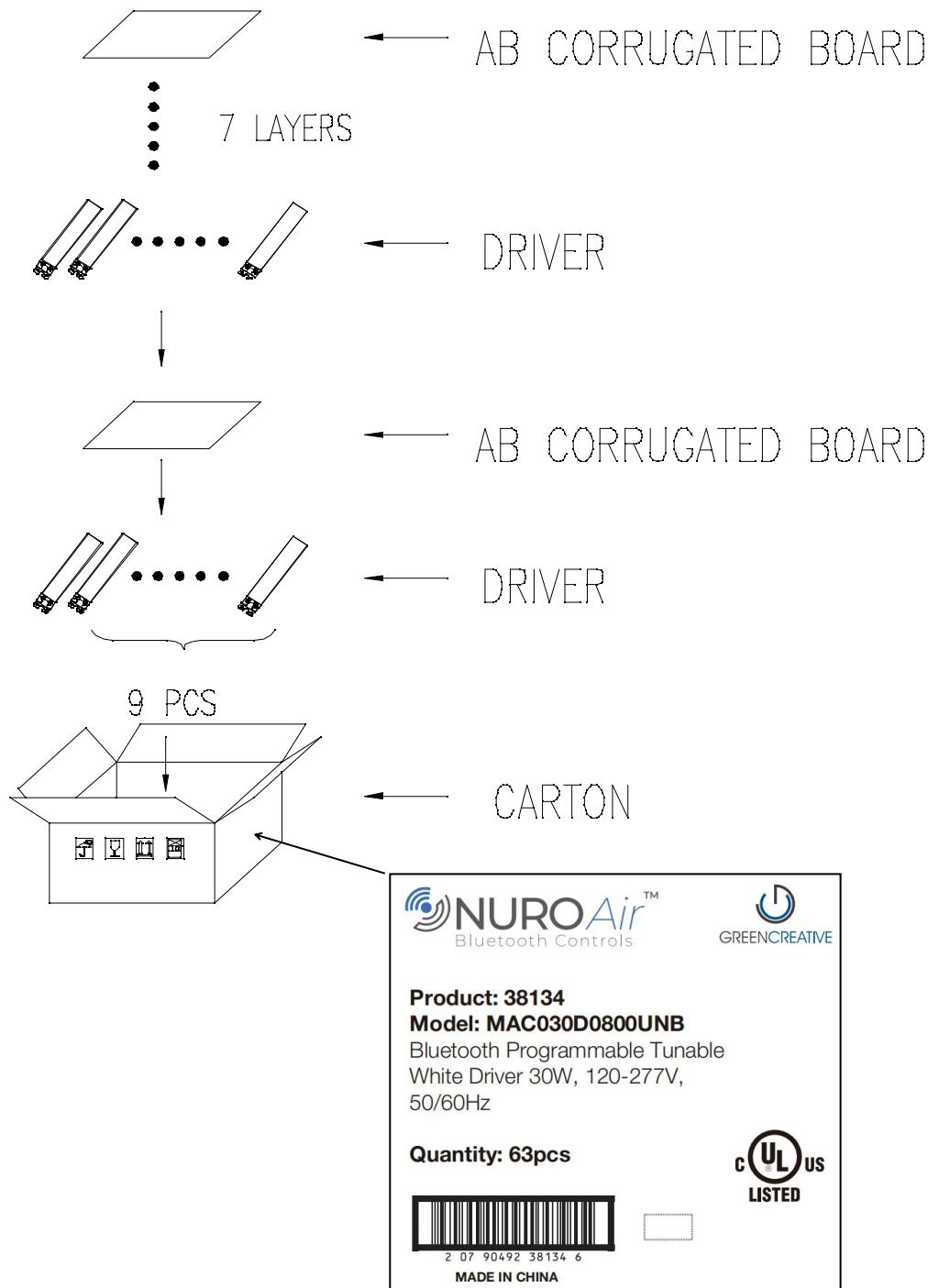


■ Label



■ Packaging

Driver quantity (pcs)	Layer	Weight (kg)	Outer dimensions of Carton L*W*H(mm)
60	7	15	330 X 305 X 230



FCC Statement:

This device complies with Part 15 of the FCC rules. Operation is subject to the following two conditions: 1) this device may not cause harmful interference, and 2) this device must accept any interference received, including interference that may cause undesired operation.

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try correct the interference by one or more of the following measures:

- Reorient the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into and outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

Changes or modifications not expressly approved by the party responsible for compliance could void your authority to operate the equipment.

The distance between user and products should be no less than 20cm

The EUT is In door use only