





■ 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















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 chan	nels should be equal.							
Model name code:								
$\frac{\text{MAC030}}{\text{1}} \frac{\text{D}}{\text{2}} -$	0 8 0 0 <u>U</u> <u>N</u> <u>B</u>	- <u>c c c c</u>						

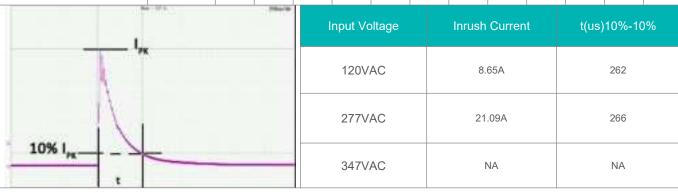
(1	2	3	4	(5)	6	⑦
1	Se	ries					Linear form factor series driver
2	Οι	ıtput chann	el				Dual output
③ Output current			MAX. total output current				
4	Inp	out voltage					U: 120-277V _{AC}
⑤ programming			N: NFC Programmable				
6	Control			B: Built in BLE Module			
7	Int	ernal code					Internal code for ADPower





■ Specification:

Parameters	Symbols	Test Conditions / Comment					Min	Тур	•	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	50/6	60	63	Hz
Input Current	I _{IN}	Full L	oad, V _{II}	_N = 120\	V _{AC}							0.33	Α
Inrush Current	I _{INRUSH}	Cold	Cold Start, V _{IN} = 277V _{AC}									40	Α
Lookaga Current		V _{IN} = 120V _{AC} 60Hz								0.5	mA		
Leakage Current	I _{Leakage}	V _{IN} = 277V _{AC} 60Hz									0.75	mA	
	MCB type	B10	C10	D10	B13	C13	D13	B16	C16	D16	B20) C2	D20
Number of Drivers per MCB(Circuit Breaker)	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



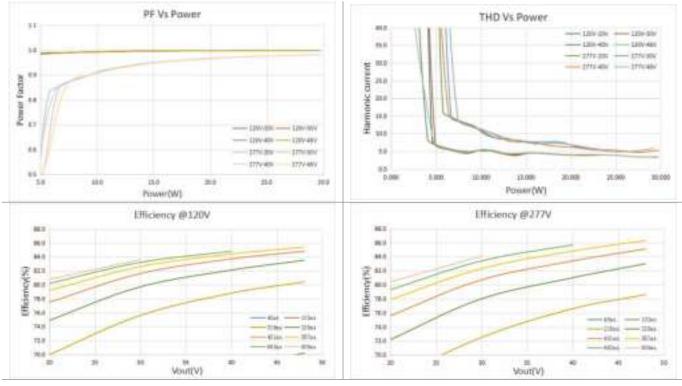
General Characteristics

Power Factor	PF	Full load, V _{IN} = 120V _{AC}				PF	
Power Factor	PF	Full load, V _{IN} = 277V _{AC}				FF	
Total Harmonic Distortion	THD	Full load, V _{IN} = 120V _{AC}			20	%	
		Full load, V _{IN} = 277V _{AC}			20	%	
Efficiency	η	Vout=48V, lout=625mA, V _{IN} =120V _{AC} , Steady state		85		%	
		Vout=48V, lout=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	



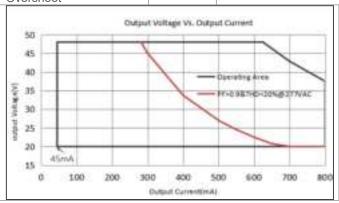


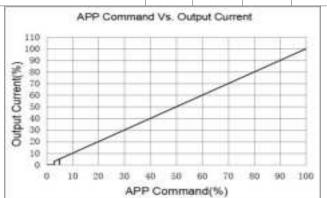




OUTPUT

Output Current Range	I _{OUT-2CH}	Total current		800	mA
Output ourrent telerance	4	400-800mA		5	%
Output current tolerance	T T	100-399mA		10	%
Output Power	Роит	See "Operating window"		30	W
Line Regulation	V _{OUT-LINE}	VE .		3	%
	I _{OUT-LOAD}	V _{OUT} from MIN. to MAX.I _{OUT} =400-800mA		5	%
Load Regulation		V _{OUT} from MIN. to MAX.I _{OUT} =100-399mA		10	%
Dipple Current	I _{OUT-RIPPLE_2}	Full Load, (Iomax-Iomin)/(Iomax+Iomin), two channels output together. BW<10KHz		30	%
Ripple Current	I _{OUT-RIPPLE_1}	Full Load, (Iomax-Iomin)/(Iomax+Iomin), One channel output, BW<10KHz		10	%
Output Current Overshoot	I _{OVERSHOOT}	Turning Power ON		10	%





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30W Mesh BLE control NFC Programmable dual output

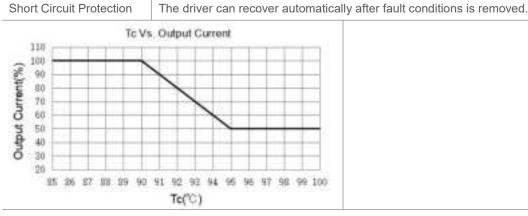
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NFC Programming

Over Temp. Protection

NFC Programmable Feature	Output current							
Due anamanain a to al	FEIG, ID CF	PR30+	Desktop reader, Please contact ADPower for details.					
Programming tool	APP of Andr	oid OS and iOS	TapTronic APP, Please contact	ADPower f	or details.			
Mini wireless control distance					10		mm	
BLE control								
A Litetrace BLE module is	built in the d	river.						
APP link	Please cor	Please contact ADPower for details.						
Dimensional	I _{BT}	Brightness dimming r	6		100	%		
Dimming range	I _{TW}	Tunable white dimming range				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 do		90		V		

Current foldback at hotspot greater than T_{OTP}



 T_{OTP}

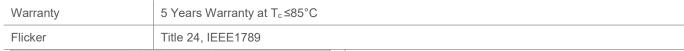
Environment

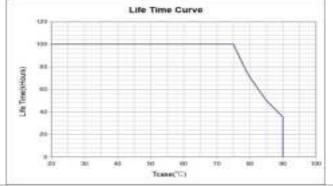
Storage Temperature	T _{Storage}	Humidity: 5% RH to 95% RH		-	+85	°C		
Ambient Operating Temperature	Ta			-	+50	$^{\circ}$		
Max. Case Temperature	Tc	Hot spot on case			90	$^{\circ}\mathbb{C}$		
Operating Relative Humidity	Ha	Non-Condensing			90	%		
Acoustic Noise		Measured from 1 m away.			24	dBA		
Cooling	Cooling Convection Cooling							
IP Rating	Dry and da	mp 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}	21!		215		g		











Safety Compliance

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

Electromagnetic Compliance

EMC Requirements	Standard	Conditions			
EMI Emissions	FCC Title 47 Part 15	Class A			
Voltage Fluctuations and Flicker	IEC61000-3-3				
	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/1minute interval (40 total strikes)			
Immunity Compliance	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			
7 - 1	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 repitition 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.





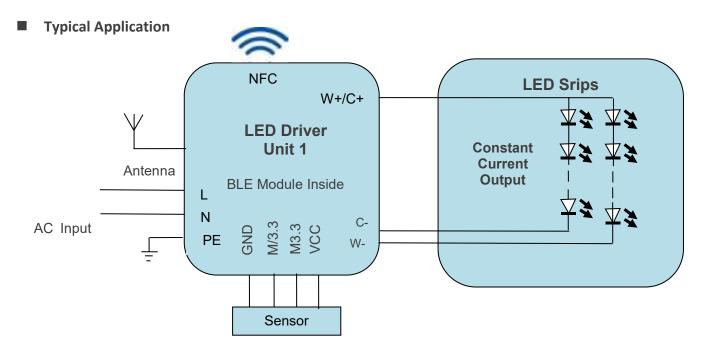
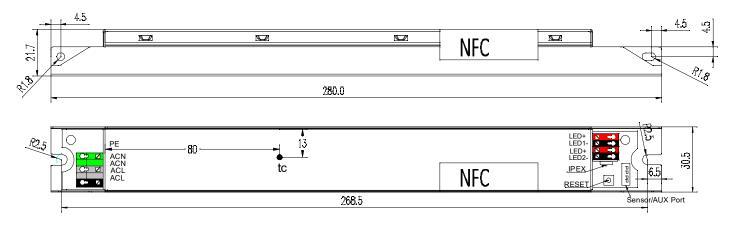


Fig. Typical Application

Mechanical Drawing:

Dimensions(Unit:mm)

Default tolerance: ±1mm



■ LabeL

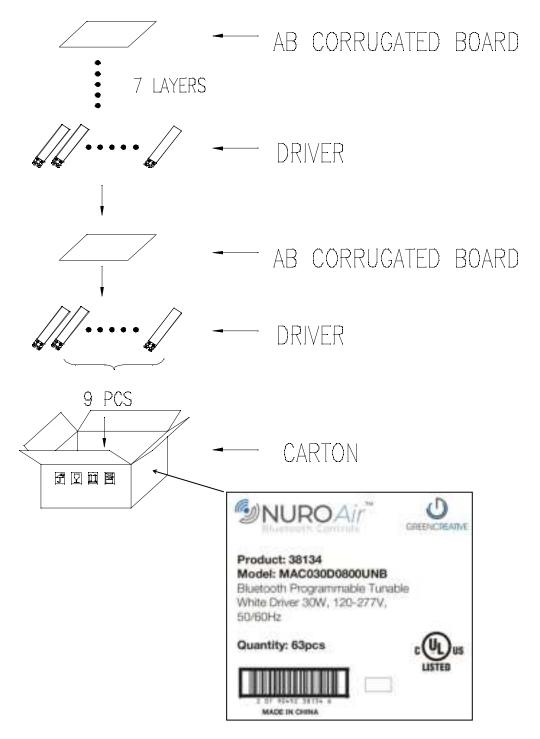






Packaging

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





MAC030D0800UNB

30W Mesh BLE control NFC Programmable dual output

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