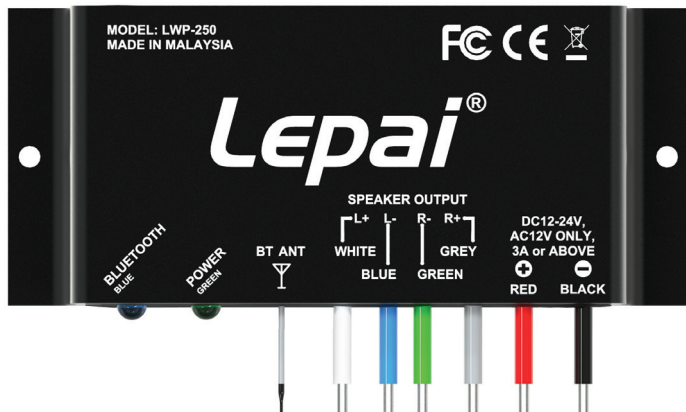


# Lepai<sup>®</sup>



## LWP-250

**2 X 50W OUTDOOR/MARINE  
BLUETOOTH 5.0 MINI AMPLIFIER**

## USER MANUAL

Thank you for choosing this Lepai® amplifier for your music application. Lepai amplifiers are known worldwide for their great sound, useful features, and affordable price, proving that clean, handy, hi-fi amplifiers, can cost less money.

**Contents:**

1x Lepai LWP-250 2 x 50W Outdoor/Marine Bluetooth 5.0 Mini Amplifier

6x silicone filled twist caps

4x mounting screws

The Lepai LWP-250 2 x 50W Outdoor/Marine Bluetooth 5.0 Mini Amplifier provides 50 watts RMS of clean audio power to any set of stereo speakers. A built-in loudspeaker protection circuit triggers during power on cycle to protect speakers from high volume bursts of audio.

The LWP-250's waterproof capability works perfect for outdoor audio applications, such as in a garden, on a boat, by a swimming pool, under a porch/patio, etc. It also works great for indoor applications. The built-in mounting brackets enable it to mount under a desk, countertop, workbench, and under dashes for mobile audio applications.

The LWP-250 connects to any smartphone, tablet, TV, or streaming player with Bluetooth capability. Bluetooth antenna ensures reliable audio transmission over long distances. When Bluetooth is searching, the Bluetooth indicator LED flashes. The LED stays lit when pairing is successful.



MODEL: LWP-250  
MADE IN MALAYSIA



# Lepai<sup>®</sup>

BLUETOOTH  
BLUE

POWER  
GREEN

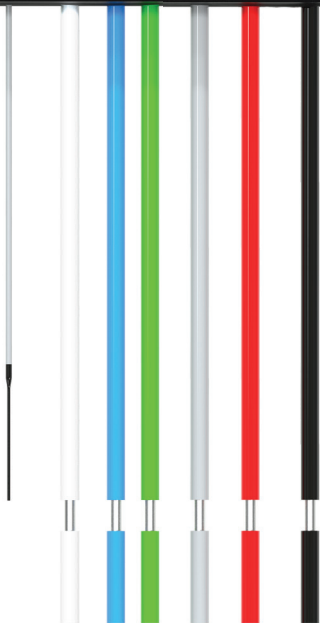
BT ANT



SPEAKER OUTPUT

L+ L- R- R+  
WHITE BLUE GREEN GREY

DC12-24V,  
AC12V ONLY,  
3A or ABOVE  
+ -  
RED BLACK



## Electrical Specifications

Specifications typical @ +25°C, unless otherwise noted. Specifications subject to change without notice.

Parameter	Conditions	Min.	Typ.	Max.	Units
Number of Channels	–	–	2	–	–
Minimum Load Impedance	–	4	6	8	Ω
Nominal Power Requirement	@2x50W, 24V, 1kHz	–	2x50	–	W
Operating Voltage	@1kHz, 6 Ohm	12	24	–	V
Idle Power	BT Signal detected@24V	–	2.8	–	W
Switching Frequency	SD Floating@24V	–	260	–	kHz
Efficiency	@1kHz, 6 Ohm, 24V, 2x50W	–	82	–	%

## Audio Performance

Specifications typical @ +25°C, unless otherwise noted. Specifications subject to change without notice.

Parameter	Conditions	Min.	Typ.	Max.	Units	
Output Noise Level	BT Connected@24V A-weighting, Input Connected to GND	L&R	–	48	–	μV
	BT Not Connected@24V A-weighting, Input Connected to GND	L&R	–	50	–	μV
DC Offset	–	–	5	–	mV	

# Lepai®

Last Revised: 9/11/2023