





ISO Watt Stereo Guitar Amplifier



User's Guide

RATE CPBI50 PowerBlock 150 Watt Stereo Guitar Amplifier

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Congratulations and thank you for choosing another Crate first in guitar amplification: the Crate CPB150 PowerBlock[™] 150 watt stereo guitar amplifier. The PowerBlock packs a lot of power and patching options into an amazingly compact and light weight package: 75 watts per channel @ 4 ohms, or 150 watts (mono) @ 8 ohms. With its switch-mode power supply and Class D power section, the PowerBlock offers lots of power, flexibility and tone, along with something no one thought you could get with such a powerful performer: extreme portability! (The PowerBlock even comes with its own padded travelling bag, which can be carried or slung on your shoulder, and even fits neatly into the semi-open back design of Crate's GT112SL speaker cabinet.)

The PowerBlock is housed in a light weight but virtually bullet proof anodized aluminum chassis which also cools the amplifier when in use. The unit is protected against speaker impedances below the recommended minimum, signal levels outside the proper operating range for the unit, and extreme unbalanced stereo conditions. The front panel features three bands of equalization, a gain and level control, and a headphone jack for private practice sessions. The rear panel of the PowerBlock is loaded with speaker output jacks (for stereo *or* mono use), a balanced XLR Line Out jack with level control, CD input jacks, and dual purpose line in / effects loop jacks for adding external effects or for patching an external line level signal into the PowerBlock. The PowerBlock also features speaker simulation circuitry for enhanced sound at each of the audio outputs.

Designed by players and built for players, there's really nothing else quite like your new Crate PowerBlock! (In order to get the most from your new PowerBlock, please read this user's guide prior to its use.)



The Crate PowerBlock amplifier can drive up to four of our GT112SL cabinets, in stereo, or drive a single Celestion speaker-loaded GT112SL to the hilt in mono mode.

The Front Panel:



1. INPUT: Use this 1/4" jack to connect your instrument to the amplifier by means of a shielded instrument cable.

2. GAIN: Use this control to adjust the signal level at the Input jack (#1). As you rotate this control clockwise, overdrive distortion is added to the sound.

Player's note: One way to get a wide range of sounds is to start with the PowerBlock's Gain control near fully clockwise and your guitar turned way down. The resulting clean sound "fattens up" as you bring up the volume on your guitar.

3. HIGH: Use this control to adjust the high frequency output of the amplifier.

4. MID: Use this control to adjust the midrange frequency output of the amplifier.

5. LOW: Use this control to adjust the low frequency output of the amplifier.

6. LEVEL: Use this control to adjust the overall output level of the amplifier.

7. **1 b**: The PowerBlock is great for private practice sessions - simply Connect a pair of stereo headphones to this jack *without* connecting the amp to your speakers. The signals at the Speaker Output jacks and the Line Out and Effects Send jacks jacks (#9, 12, and 14, rear panel) are *not* interrupted when headphones are used. (The signal at the headphones jack is enhanced by the speaker simulator circuitry for superior sound.)

8. (POWER ON LED): This LED illuminates a cool blue when the amplifier is on.

The Rear Panel:



9. SPEAKER OUTPUTS: Use these jacks to connect the amplifier to your speaker cabinets. Observe the wattage and impedance ratings adjacent to each jack. The Mono output is to be used when the Bridge Mono switch (#10) is depressed. The Right and Left jacks are to be used when running the amplifier in the stereo mode.

NOTE: Do not operate the unit with stereo cabinets that have a common shield. Operating the unit with this type of cabinet will activate the protection circuitry causing the unit to shut down.

10. BRIDGE MONO: This switch, when depressed, sends the left channel to both power amplifiers and their outputs to the Mono Speaker Output jack (#9). When this switch is in the out position, the amplifier is in the stereo mode and the left and right signals are sent to the Left and Right Speaker Output jacks (#9).

11. LEVEL: Use this control to adjust the level of the signal at the Line Out jack (#12).

12. LINE OUT: Use this balanced XLR jack to send a line level signal to another amplifier, the house mixing board, or a recording console. (The signal at the Line Out jack is enhanced by the speaker simulator circuitry for superior sound.)

13. CD INPUT: Use these RCA jacks to connect the outputs of a CD (or MP3) player to the amplifier. The level of the signal into these jacks must be controlled by the source.

14. LINE IN RIGHT / LEFT/MONO / EFFECTS LOOP SND/RTN: Use these jacks to perform the following: (1) Send a line level signal into the amplifier for processing – for stereo signals, use both jacks; for a mono signal, use the "Left/Mono" jack. (2) Connect an external effects device to the amplifier by means of a 1/4" T/R/S Y-cord inserted into the Effects Loop Snd/Rtn jack. (See page 6 for additional information.) These jacks are post eq, post Level.

15. POWER: Use this switch to turn the amplifier on (top of the switch depressed) and off (bottom of the switch depressed).

16. AC LINE IN: Connect the AC power cord securely into this jack. The grounded power cord should only be plugged into a grounded power outlet that meets all applicable electrical codes and is compatible with the voltage, power and frequency requirements stated on the rear panel. Do not attempt to defeat the safety ground connection!

Using the Effects Loop Jack:



The Effects Loop Snd/Rtn jack allows for virtually noise free connection of external effects. You will need a stereo-to-dual-mono 1/4" adapter as described in the illustrations below. This T/R/S jack is wired as follows: tip = return, ring = send, sleeve = ground.



System Block Diagram:



*Please refer to Item 9, Speaker Outputs (page 5)

Declaration of Conformity			
	SLM Electronics 1901 Congressional Drive, St. Louis, Missouri 63146 700 Hwy 202 W, Yellville, Arkansas, 72687		
Product Type:	Audio Amplifier		
Products meet the regulations for compliance marking under: ETL standards UL6500, UL60065, or UL813 CSA standards E60065 or C22.2 No.1-M90 CE safety standard EN60065 CE EMC standards EN55103 or EN55013 and EN61000 C-tick designation Level 2, ABN #56748810738, ARBN# N222 KETI standard K60065 (limited model approval)			
	upport Contact: SLM Electronics, Attn: R&D Compliance Engineer Drive, St Louis, Missouri, 63146 • Tel.: 314-569-0141, Fax: 314-569-0175		

RAJ C CPBI50 PowerBlock 150 Watt Stereo Guitar Amplifier

Output Power Rating	Mono	150W RMS @ 10% THD @ 8 ohms
	Stereo	75W RMS @ 10% THD per side @ 4 ohms
Input Impedance	Instrument	700k ohm
	CD	22k ohm
	Line In	22k ohm
Total System Gain (all co	ontrols @10)	
	Instrument	91dB
	CD	33dB
	Line	34dB
Maximum Input Signal Ad	ccepted	8 volts peak to peak
Tone Controls	Low	20dB range @ 110Hz
	Mid	15dB range @ 1kHz
	High	20dB range @ 10kHz
Power Requirements		120 VAC, 60Hz, 35VA
		100/115VAC, 50/60Hz, 35VA
		230VAC, 50/60Hz, 35VA
Dimensions		3.2" H x 10" W x 5.6" D
Weight		4.6 lbs.

CPB150 TECHNICAL SPECIFICATIONS:

The CPB150 is housed in an anodized aluminum chassis: occasionally wipe it clean with a lint-free cloth. Never spray cleaning agents onto the unit. Avoid abrasive cleansers which would damage the finish.

Crate continually develops new products, as well as improves existing ones. For this reason, the specifications and information in this manual are subject to change without notice.

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 to correct the interference by one or more of the following measures:

- · Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and the receiver.
- Connect the equipment into an 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 to this device not expressly approved by SLM Electronics could void the user's authority to operate the equipment under FCC rules.





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