

Sota Instruments MP7 PEMF (Magnetic Pulser) vs BBMPulser 2B3 PEMF (Magnetic Pulser)



VS



Parameters		Sota MP7	BBMPulser 2B3
Date of introduction		October 2023	Mar 2025
Charge time in seconds	On high	4 sec	0.266 sec
	On low	1 sec	0.059 sec
Power Adjustment		2 modes, low and high	Smooth adjustment low to high
Power Output	On Low	2,500 Gauss	3,000 Gauss
	On High	7,000 Gauss	7,000 Gauss
Use time (session time)	On Low	25 min	14 min
	On High	40 min	9 min
Pulses per Session	On Low	1,500 pulses @ 1Hz	14,280 Pulses @ 17Hz
	On High	600 pulses @ 0.25Hz	2,025 Pulses @ 3.75Hz
Muscle trigger		No	Yes, Mid and High
Power adapter		12VDC (supplied)	Doesn't require adapter
Power in 110VAC & 220VAC		Yes	Yes (You specify)
Magnetic Isolation (safety)		Yes	Yes
Capacitor Bank		1x 600uF Capacitor ??	4x 6.5uF Capacitors
Capacitor max Charge Voltage		~350V ??	1,250V
Paddle head diameter		3"	3.5"
Coil made of		~16AWG Copper wire ??	0.6mm x 15mm Copper Strip
Build in Coil thermal switch		No	Yes 60C thermal switch
End of session sound alarm		No	Yes
End of session visual alarm		No	Yes
Auto shut off (end of session)		Yes	Yes
Peak Power draw		~ 20 Watts	~ 150 Watts
Build in cooling fan		No	Yes
Silent operation		Yes	Yes
Dimension		7" x 5.75" x 2.25" 4.82 Pounds	9" x 8" x 3.5" 11.9 Pounds

Warranty	2 years	3 years
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Summary:

When comparing to Sota Instruments MP7 model, BBMPulser 2B3 is 25% larger and 2.5x heavier

Power output is about the same 0.7 Tesla on highest and ~0.3 Tesla on lowest

Pulses from BBMPulser 2B3 will feel much stronger and will trigger muscle respond in mid and high power range due to couple factors.

1. Coil design. BBMPulser 2B3 uses more efficient Copper Strip Coil vs round wire used by Sota

2. 3.5x higher Voltage of the Capacitor Bank

Using BBMPulser 2B3 you will be able to get ~16x faster pulsation rate, your session time can be cut in half when using it in fast mode and you will get 9.5x more pulses in half the time

When using on high settings (0.7Tesla) you will get 3.4x more pulses and you will cut your session time 4.5x.

When it comes to price, I can't beat Sota, they build their units in China and import them to Canada. I build my units in USA where labor and material cost is high.

To sum it up, BBMPulser 2B3 is 16x faster compared to Sota MP7 and cost only 3.5x more, also it comes with better warranty. Purchasing BBMPulser you are supporting USA labor, buying from Sota Instruments – will support China and Canada.