

**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	On high 0.266 sec
		On low 1 sec	On low 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	min. 10 min
	On High	40 min	~10 min
Pulses per Session	On Low	1,500 pulses @ 1Hz	~7,500 Pulses @ 17Hz
	On High	600 pulses @ 0.25Hz	~1,700 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
Coil wire cross section		1.31mm <sup>2</sup> (if wire is 16AWG)	9mm <sup>2</sup>
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
Dimensions, weight		7" x 5.75" x 2.25"	9" x 8" x 3.5"

	4.82 Pounds	11.9 Pounds
Warranty	2 years	3 years

**Summary:**

Compared to the Sota Instruments MP7, the **BBMPulser 2B3** is **25% larger** and **2.5× heavier**, with a similar power output—**0.7 Tesla at maximum** and approximately **0.3 Tesla at minimum**.

However, pulses from the BBMPulser 2B3 feel significantly stronger and can trigger muscle response in the mid and high power range due to two key factors:

1. **Coil design:** BBMPulser 2B3 uses a more efficient **copper strip coil** compared to the round wire used in the Sota MP7.
2. **Higher voltage:** The capacitor bank operates at **3.5× higher voltage**.

Using the BBMPulser 2B3, you can achieve:

- **~12× faster pulsation rate**, reducing session time by half in fast mode.
- **9.5× more pulses** in half the time.
- On high settings (0.7 Tesla), you will get **~12.5× more pulses** in a 10-minute session and reduce session time by **2.5×**.

In terms of price, Sota units are less expensive, as they are manufactured in China and imported to Canada. BBMPulser units are **built in the USA**, where labor and materials cost more.

**In summary:** The BBMPulser 2B3 delivers **12× faster performance** than the Sota MP7, costs only **3.5× more**, and comes with a **better warranty**. By purchasing BBMPulser, you are supporting **USA labor**, whereas buying Sota supports **China and Canada**.