Comparing models BBSA 1.0 to BBSA 2.0 to BBSA 3.0

Parameters	BBSA 1.0	BBSA 2.0	BBSA 3.0	Notes
Introduction	11/2024	11/2025	12/2025	
Rechargeable battery	No, requires AC/DC wall adapter to operate	Yes, build in	Yes, build in	Lithium
Battery run time micropulsing	-	75 Hours	150 Hours	Run time before recharge
Battery run time Colloidal Silver	-	20 Hours	120 Hours	Run time before recharge
Build in battery management system	No	Yes	Yes	Safety circuitry
Charger	-	5V USB type C	5V USB type C	5V 1A charger
Charge time	-	~3h	~4h	0 to full
Battery capacity	-	1,500mAh	2,500mAh	
Low battery indicator	-	No	Yes	Red blinking LED
Battery charge indicators	-	Yes	Yes	Visible through the case
On/Off indicator	No	No	Yes	Blue LED
Silent operation	No	Yes	Yes	
Open Source	Yes	No	Yes	
Size	72mm x 62mm x 29mm	105mm x 76mm x 24mm	76mm x 48mm x 28mm	Length x width x thickness
Micro-currents voltage adjustment	Yes	Yes	Yes	
Micro-currents max voltage	30V	27V	30V	
Micro-currents frequency	~4Hz	~4Hz	~4Hz	
Colloidal Silver output DC currents	Unregulated	1mA	2mA	
Colloidal Silver output DC voltage	30V	25V	27V	
Available as a kit	Yes	Yes	Yes	
Available as a unit	Yes	No	Yes	
Price as of 03/2026 incl shipping in USA	Kit - $139.00 Unit - $35.50	Kit - $221.00 Unit – not available	Kit - $257.00 Unit - $85.00	
Warranty	3y	3y	3y	