



OVER THE LAST 30 YEARS, BDI HAS INSTALLED TENS OF THOUSANDS OF STRAIN GAGES AROUND THE WORLD IN CHALLENGING FIELD CONDITIONS. BASED ON THIS EXTENSIVE EXPERIENCE, WE HAVE DEVELOPED THE NEW PORTABLE S100 STINGER (RAPID CAPACITIVE DISCHARGE BONDER) FOR SPOT BONDING WELDABLE STRAIN GAGES.

THIS SPECIALIZED TOOL COMBINES AN EXTREMELY FAST SPOT BONDING RATE WITH LIGHTWEIGHT PORTABILITY AND REMOVABLE LI-ION BATTERIES TO KEEP THE TOOL IN USE ALL DAY. SIMILAR TO ALL BDI INSTRUMENTS, THE STINGER IS RUGGED, EFFICIENT, AND RELIABLE IN ALL TYPES OF ADVERSE FIELD CONDITIONS.

YOU'LL BE AMAZED AT HOW FAST AND ACCURATE YOUR STRAIN GAGE INSTALLATIONS CAN BE COMPLETED.

FEATURES

- + Extremely fast capacitive discharge bonding rate of up to 60 bonds per minute
- + Off-the-shelf removable/rechargeable Li-Ion batteries minimize down time
- + 1200 bonds per battery charge
- + Intuitive and simple-to-use control interface
- + Ballistic nylon bag features shoulder strap, belt loops, carabiner attachment, and large pocket for handle and grounding cables with inner sleeve for spare parts
- + Lightweight and portable. Ideal for working from ropes access, aerial lift, or in a laboratory



BUILD YOUR S100 KIT:

- + Includes:
 - Bonding handle and both magnetic and mechanical ground clamp assemblies
- + Select:
 - Battery quantity and charger type or buy locally
 - Bonding tips
 - Protective cases

SPECIFICATIONS

| MODEL | S100 |
|---------------------------------------|---|
| BONDING VOLTAGE | 10 to 24.5 Vdc |
| BONDING ENERGY | Selectable 10 to 60 Joules |
| BONDING RATE | Up to 60/minute |
| BONDS PER BATTERY CHARGE ¹ | 1200 at 35 Joules |
| OPERATING TIME | ~20 Hours |
| HANDLE ASSEMBLY CABLES ² | Power cable, 5 ft (1.5 m) 6 AWG red Neoprene cable Trigger cable, 5 ft (1.5 m) 18/3 AWG yellow flexible Super Vu-Tron [®] Supreme |
| GROUNDING ASSEMBLY CABLES | Magnetic mount & mechanical clamp assemblies, both include 5 ft (1.5 m) 6 AWG black Neoprene cable |
| POWER | |
| LI-ION BATTERY ^{3, 4, 5} | Milwaukee M12™ REDLITHIUM™ 3.0 (12 Vdc, 3.0 Amp-Hr.) |
| CHARGER | Milwaukee M12™ Lithium-ion Battery Charger |
| LCD DISPLAY | |
| BATTERY | Estimated remaining battery percentage |
| ENERGY | Joules |
| ERROR MESSAGE | Hardware error codes |
| SAFETY | |
| AUTO DETECT GROUND | < 1Ω resistance test on return ground path |
| SELF TEST ON POWER UP | Validate hardware functionality |
| PHYSICAL | |
| ENCLOSURE | Rugged powder coated aluminum extrusion, splashproof |
| OVERALL SIZE (W X L X H) | Case: 8 x 8.5 x 3 in (203 x 216 x 76 mm) Cables, Handle, Clamps: 8 x 8 x 3 in (203 x 203 x 76 mm) |
| WEIGHT ⁶ | ~8.3 lb (3.8 kg) |
| TEMPERATURE | |
| OPERATING/STORAGE | -4° to +140 °F (-20° to +60 °C) |
| RECOMMENDED BATTERY CHARGING | +40° to +105 °F (+4° to +40 °C) |
| WARRANTY | |
| LIMITED WARRANTY ⁷ | 3 Years |

¹ Number of bonds per charge based on nominal operating temperature of 70 °F (20 °C) and new Milwaukee M12™ REDLITHIUM™ 3.0 Ah Li-Ion battery fully charged.

² Super Vu-Tron[®] is a registered trademark of General Cable.

³ Any of the Milwaukee M12™ compatible batteries will work in the S100.

⁴ Any of the Milwaukee M12™ compatible chargers will work.

⁵ Trademark is registered to Milwaukee Electric Tool Corporation.

⁶ Weight is based on the S100 with Handle cable assembly, Grounding and Mechanical cable assemblies, and one battery.

⁷ See Warranty Statement at BDItest.com, under Support/Resources.

ACCESSORIES & REPLACEMENTS

 **Bonding Tips (Straight and Curved)**

 **Extension Rod**

 **M12™ REDLITHIUM™ 3.0 Battery and Charger**

Ballistic Nylon Work Bag and Pelican Transit Case