

# STUD WELDING PRODUCTS, INC.



## STUD WELDING UNIT

Model: CDi 3102

### Inverter-Capacitor Charging Technology

- Maximum welding rates
- Minimum weight
- Minimum energy consumption
- Maximum efficiency

### DESCRIPTION

Stud Welding Unit (with digital display) for CD stud welding (capacitor discharge welding) according to current standards

### CONVENIENT OPERATIONAL AND SAFETY FEATURES

- Integrated mains filter (protection against voltage peaks)
- Optimal for construction sites with large mains voltage fluctuations – use even with critical voltage supply (- 25% + 20%)
- EMC test (Din EN 60974-10)
- High-voltage test with log (Din EN 60974-1)
- Logged capacitor forming for quality control of the stud welding capacitors
- Self-forming capacitors provide a longer life period and higher reliability
- Retriggering lock-out – prevents welding on a welding element that has already been set
- Thermal monitoring of transformer – automatic shutdown in case of overheating
- Temperature controlled cooling fan – reduces noise and dust in the stud welding unit (greater system reliability)
- Optimal protection against external interferences



| FEATURES       | CDi 3102   |
|----------------|--|
| SIZE           | 18.90" length, 8.07" width, 9.84" height without handle    |
| WEIGHT         | 39.68 lbs.   |
| WELD RANGE     | #4 (M3) to 3/8" (M10) FL                                   |
| WELDING RATE   | 6 to 20 studs/min (depending on application and stud dia.) |
| PRIMARY POWER  | 115 V, 50/60 Hz, 10 AT                                     |
| CHARGE VOLTAGE | 50 to 220 V (stepless voltage regulation)                  |

IPC Code: IP 23

### FEATURES

- Especially suitable for thin sheets (at least 0.5 mm).
- Microcontroller – for precise process times, optimal functional reliability and maximum operating convenience.
- Function monitoring – automatic function test following power-up; monitoring of all internal system functions.
- Display of error codes – on digital display.
- Library function – automatic specification of charging voltage through selection of stud diameter according to welding range; fine adjustment via arrow keys.
- Structure: extremely easy to operate, compact, robust – powder coated steel housing withstands rough treatment in shop and on site.
- Display – infinitely adjustable power setting (charge reversal via set-point switch); easy monitoring of all functions via LED displays.
- Powerful – built-in power reserves.
- Use of special capacitors (developed for stud welding).
- Suitable welding guns: C 08 and CA 08

Check us out on the internet [www.studweldprod.com](http://www.studweldprod.com) or email [info@studweldprod.com](mailto:info@studweldprod.com)

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