





Inverter-Capacitor Charging Technology Maximum welding rates Minimum weight Minimum weight Maximum efficiency

CDi 2302

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

Technische Daten	
Welding range	#4 to 5/16" (7/16" limited), dia. 14 ga to 5/16" (dia. 3/8" limited) (M3 to M8 (M10 limited), dia. 2 to 8 mm (dia. 10 mm limited))
Welding material	Mild steel, stainless steel, aluminum and brass
Welding rate	M3 = 33 studs/min. (Charging voltage 60 V) M8 = 12 studs/min. (Charging voltage 170 V) (M10 = 9 studs/min. (Charging voltage 210 V))
Capacitance	99,000 μF
Welding time	1 to 3 msec
Energy	2,400 Ws
Charging voltage	50 to 220 V (stepless voltage regulation)
Primary power	115 V, 50/60 Hz, 10 AT
Power source	Capacitor
Cooling type	F (temperature controlled cooling fan)
IP-code	IP 23
Dimension L x W x H	18.90" x 8.07" x 9.84" (480 x 205 x 250 mm) without handle
Weight	37.48 lbs (17 kg)
Order No	92-12-2302

General Information

Application

• Especially suitable for thin sheets (at least 0.5 mm)

Process variants

- Contact welding
- Gap welding



Advantages

Features

- 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

Safety

- With 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 charging unit and internal temperature of stud welding unit
 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
- IP-code: IP 23

Welding

- **Display** infinitely adjustable power setting (charge reversal via set-point switch); easy monitoring of all functions via LED displays
- **Powerful** built-in power reserves
- Trouble-free changing of welding voltage polarity possible by reconnecting welding current and ground cables
- Use of special capacitors (developed for stud welding)

Suitable welding guns/-heads

- C 08
- CA 08

Issue 08/12 (Technical data may change)