



### Inverter

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

### IT 2002

**Stud Welding Unit**  
for ARC stud welding  
according to current standards

#### Technical Data

Gas	Optional
Welding range	Dia. 14 ga to 1" (2 to 25 mm)
Welding material	Mild steel, stainless steel, aluminum
Welding rate	Dia. 7/8" = 7 studs/min (dia. 22 mm = 7 studs/min)
Welding current	2,000 A (max.)
Current adjustment range	300 to 2,000 A (stepless)
Welding time	5 to 1,500 ms (stepless)
Primary power	480/460 V, 3 phase, 50/60 Hz
Fusing	60 Amp Time Delay Fusing
Cooling type	F (temperature controlled cooling fan)
IP-Code	IP 23
Dimension L x W x H	23.6" x 19.7" x 32.7" (600 x 500 x 830 mm) without handle
Weight	210 lbs
Order No.	<a href="#">93-66-2201</a> <a href="#">93-66-2202 (Gas)</a>

#### General Information

##### Application

- Especially suitable for thicker sheets of about 2 mm or higher
- Especially suitable for welding of concrete anchors/shear connectors for job site applications
- Suitable for through deck welding

##### Process variants

- **Short cycle drawn arc welding**
- **Drawn arc welding**

##### Equipment

- **Welding with ceramic ferrule** (series)
- **Welding with shielding gas** (optional)



## 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
- **Lift test** – for gap welding guns and stud welding heads
- **Library function** – automatic specification of welding current and welding time through selection of stud diameter according to welding range (with and without shielded gas); fine adjustment via arrow keys

### Structure

- **Extremely easy to operate**
- **Compact**
- **Mobile** – highly mobile thanks to compact dimensions and low weight (50 % weight savings vis-à-vis conventional stud welding units)
- **Robust** – metal 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 (- 10 % + 10 %)
- **EMC test**
- **High-voltage test with log**
- **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-regulated ventilator** – reduces noise and dust in the stud welding unit (greater system reliability)
- **Control unit galvanically separated from welding lines** – high degree of functional safety
- **Optimal protection against external interferences**
- **IP-Code: IP 23**
- Also permits operation outdoors

### Welding

- **Display** – infinitely adjustable power setting; easy monitoring of all functions via LED displays; easy operation via membrane keyboard and digital display; setting of welding parameters, programs, shielding gas (optional); digital display of current, welding and gas-preflow time; separate settings for welding current and welding time
- **Powerful** – built-in power reserves
- **Trouble-free changing** of welding voltage polarity possible by reconnecting welding current and ground cables
- **Outstanding welding quality** – very high arc stability even at weak welding currents
- **High process flexibility** – high clock frequency (30 kHz) of stud welding unit allows highly dynamic regulation of welding process

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(Technical data may change)