



## INVERTER ARC STUD WELDER - IT 3002



TECHNICAL DATA	
Gas	Option
Welding range	#4 to 1 1/4", dia. 14 ga to 1" (M3 to M31, dia. 2 to 31mm)
Welding material	Mild steel, stainless steel, aluminum
Welding rate	Dia. 1" = 6 studs/min (dia 25 mm = 6 studs/min) Through deck welding 3/4" = 12 studs/min (300 feet, AWG 4/0) Industrial application 3/4" = 14 to 15 studs/min
Welding current	2,600 A (max.)
Current adjustment range	300 to 2,600 A (stepless)
Welding time	5 to 1,500 msec (stepless)
Primary power	480/460 V, 3 phases, 50/60 Hz, 125 AT (alternative input voltages available)
Connected load	150 KVA (with 400 V mains), 120kw
Cooling type	F (temperature controlled cooling fan)
Protection class	IP 23
Operation and storage conditions	According to current standards
Dimensions L x W x H	25.6" x 22" x 50.8" (650 x 560 x 1290 mm) without handle
Weight	352.7 lbs (160 kg)
Order No.	93-66-3211 (1 Gun connection)

[www.sunbeltstudwelding.com](http://www.sunbeltstudwelding.com)

**Sunbelt Stud Welding, Inc**  
**6381 Windfern Road**  
**Houston, Texas 77040-4915**



**14-22**

**1-800-462-9353**  
**713-939-8903**  
**fax 713-939-9013**



# INVERTER ARC STUD WELDER - IT 3002

## FEATURES

**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 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

## SUITABLE STUD WELDING GUNS

A 12 with ceramic leg assembly PSC-1	A 12 with gas shroud PSS-1/SC
A 12 with shielding gas leg assembly PSS-2	A 12-FL
A 16	A 22

## GENERAL INFORMATION

**Application**

- Especially suitable for thicker sheets of about .093 inches (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)

## ADVANTAGES

**Structure**

- **Extremely easy to operate**
- **Compact/Mobile** – highly mobile thanks to compact dimensions and low weight (50% less weight compared to conventional stud welding units)
- **Robust** – metal housing withstands rough treatment in shop and on site

[www.sunbeltstudwelding.com](http://www.sunbeltstudwelding.com)

**Sunbelt Stud Welding, Inc**  
 6381 Windfern Road  
 Houston, Texas 77040-4915



**1-800-462-9353**  
**713-939-8903**  
 fax **713-939-9013**



## ***INVERTER ARC STUD WELDER - IT 3002***

### **ADVANTAGES (continued)**

#### **Safety**

- With integrated **mains filter** (protection against voltage peaks)
- **Optimal for construction sites with large mains voltage fluctuations** – use even with critical voltage supply  $\pm 10\%$
- **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 reliability)
- **Control unit galvanically separated from welding lines** – high degree of functional safety
- **Optimal protection against external interferences**
- **Protection class 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

[www.sunbeltstudwelding.com](http://www.sunbeltstudwelding.com)

**Sunbelt Stud Welding, Inc**  
**6381 Windfern Road**  
**Houston, Texas 77040-4915**



**14-24**

**1-800-462-9353**  
**713-939-8903**  
**fax 713-939-9013**