



## Inverter-Capacitor Charging Technology

Maximum welding rates  
Minimum energy consumption  
Minimum weight  
Maximum efficiency

## Pegasar 500 accu

### Battery-powered Stud Welding Unit

For CD stud welding (capacitor discharge welding) according to current standards

### Technical Data

<b>Welding range</b>	Studs (steel) #4 to 1/4" (M3 to M6), Studs (aluminum) #4 to #6 (M3 to M4)
<b>Welding material</b>	Mild steel, stainless steel, aluminum
<b>Welding rate</b>	#4 = 40 studs/min (charging voltage 55 V) 1/4" = 10 studs/min (charging voltage 95 V)
<b>Capacitance</b>	100,000 µF
<b>Welding time</b>	1 to 3 ms
<b>Energy</b>	500 Ws
<b>Charging voltage</b>	50 to 100 V (stepless voltage regulation)
<b>Primary power</b>	115 V/230 V, 50/60 Hz, 10 AT, in battery operation: 25.55 V
<b>Battery</b>	25.55V / 5.7 Ah / 145.64 Wh (LiNiCoAlO2)
<b>Number of welds per charge</b>	400 welds 1/4"
<b>Battery charging time</b>	Max. 2.5h
<b>Battery operating time</b>	At least 400 charging cycles (at 800 charging cycle still approx. 60% of the initial capacity)
<b>Power source</b>	Capacitor
<b>Cooling type</b>	F (temperature controlled cooling fan)
<b>IP-code</b>	With inserted battery: IP 44, without battery: IP 23
<b>Dimension L x W x H</b>	18.7" x 11.81" x 13.98" (475 x 300 x 355 mm) with handle
<b>Weight</b>	26.46 lbs (12 kg) incl. battery, 23.59 lbs (10.7 kg) without battery
<b>Order No</b>	<b>92-12-0500 (Pegasar 500 accu)</b> <b>88-23-484 (Accu 150 – battery)</b> <b>88-24-066 (Accu Charger 150 – charging unit for battery)</b> <b>92-20-275 (C 06-3 – Stud welding gun)</b> <b>92-40-154 (Ground Cable)</b>

### General Information

#### Application

- Especially suitable for thin sheets (at least 0.5 mm)
- ISO – especially suitable for fixing heating, ventilation and air-conditioning mats (HVAC)

## 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
- **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 44**

### Welding

- **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 06-3**

Issue 08/16  
(Technical data may change)