

Pegasar 500 accu Insulation

Technical Data Sheet



Inverter-Capacitor Charging Technology

Maximum welding rates
Minimum energy consumption
Minimum weight
Maximum efficiency

Pegasar 500 accu - Insulation

Battery-powered Stud Welding Unit

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

Technical Data

Welding range	Cupped Head Pins 14 GA & 12 GA CD Nails 14 GA to 10 GA
Welding material	Mild steel, stainless steel, aluminum
Welding rate	#4 = 40 studs/min (charging voltage 55 V) 1/4" = 10 studs/min (charging voltage 95 V)
Capacitance	100,000 μ F
Welding time	1 to 3 ms
Energy	500 Ws
Charging voltage	50 to 100 V (stepless voltage regulation)
Primary power	115 V/230 V, 50/60 Hz, 10 AT, in battery operation: 25.55 V
Battery	25.55V / 5.7 Ah / 145.64 Wh (LiNiCoAlO ₂)
Number of welds per charge	400 welds 1/4"
Battery charging time	Max. 2.5h
Battery operating time	At least 400 charging cycles (at 800 charging cycle still approx. 60% of the initial capacity)
Power source	Capacitor
Cooling type	F (temperature controlled cooling fan)
IP-code	With inserted battery: IP 44, without battery: IP 23
Dimension L x W x H	18.7" x 11.81" x 13.98" (475 x 300 x 355 mm) with handle
Weight	26.46 lbs (12 kg) incl. battery, 23.59 lbs (10.7 kg) without battery
Order No	92-12-0500 (Pegasar 500 accu) 88-23-484 (Accu 150 – battery) 88-24-066 (Accu Charger 150 – charging unit for battery) 92-20-254 (CI 03 – Stud welding gun) 92-40-091 (Ground Cable)

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)

Process variants

- **Contact 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
- **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**
- **CI 03**

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(Technical data may change)