

KOBEWEL KT200P

I.G.B.T INVERTER DC PULSE TIG



Standard Specifications

| Description | | TIG200P |
|----------------------|------|------------------|
| Rated Input Voltage | | 1 X 240V |
| Rated Input Power | | 1 Ph; 5KVA |
| Frequency | | 50-60Hz |
| Rated Output Current | TIG | 5-200A |
| | ARC | 5-200A |
| Max .No-Load Voltage | | 70V |
| Rated Duty Cycle | | 200A / 35% |
| Slop Time | Up | 0.5 Sec |
| | Down | 0.5 Sec |
| Pulse Frequency | | 0.5 ~ 25 Hz |
| Gas Delay Time | | 0- 10 sec |
| Dimension(W*D*H) | | 390x 190x 280 mm |
| Weight | | 12 Kg |

Excellent Arc Start

Very excellent performance and suitable to wide application of thin, thick welding and automatic welding thanks to the arc start by super high speed PMW control system.

High Quality Function

The high speed inverter control guarantees quality welding by maintaining a stable arc even with current keeps as low as 5A.

The selected welding current keeps stable despite variations in input voltage or ambient temperature and the steady arc ensure high efficiency regardless of hand-trembling while welding.

Realization of High Quality Welding High Quality DC TIG Welding

Kobewel's original inverter realizes a complete wave from so that excellent arc stability enables quality welding and helps weld nicely the corner of the thick plate.

KOBEWEL® JAPAN

I.G.B.T TECHNOLOGY

IGBT AC/DC TIG 200GP



HIGH QUALITY AC TIG WELDING

Kobewel's original inverter relies on a complete wave from so that excellent arc stability enables quality welding on aluminum plates to be performed and helps weld nicely the corner of the thick plate.

HAVING CAPABILITIES OF 6 POWER SOURCES

- A.C. TIG
- D.C. TIG
- D.C. Manual Welding
- A.C. Pulse TIG
- D.C. Pulse TIG
- TIG Spot

OUTSTANDING THIN PLATE WELDING

The high speed pulse (50-500hz) current concentrates as fine and stable arc on the plate that it makes superb welding on 0.2 sheet metal, and low speed pulse (0.5-50hz) current achieves even bead.

HIGH QUALITY & FUNCTION

The high speed inverter control guarantees quality welding by maintain a stable arc even with current as low as 5A. The selected welding current keeps stable despite variations in input voltage or ambient temperature, and the steady arc ensures high efficiency regardless of hand-trembling while welding.

| MODEL | | 200GP AC/DC |
|-------------------------------|-------------------------------|-----------------------------|
| INPUT | Voltage | AC220/ 230/ 240V 50Hz |
| | No-load Voltage | 60 - 80V |
| | Base Current Adjusting Range | 5 ~ 160A |
| | Rated Output Current | 160A |
| | Rated Duty Cycle | 35% |
| | No-load Voltage | 60 -80V |
| AC TIG | Base Current Adjusting Range | 20 ~ 200A |
| | AC balance | 30% ~ 70% |
| | AC Square Wave Frequency | 50 ~ 250Hz |
| | Rated Duty Cycle | 35.00% |
| DC | Pulse Current Adjusting Range | 5 ~ 200A |
| | Rated Duty Cycle | 35.00% |
| | Current Down - slop Time | 0 ~ 10S |
| | Base Current Adjusting Range | 5A ~ 200A |
| TIG | Pulse Width Ratio | 0.1~0.9 |
| | Pulse Frequency | 0.5~25Hz |
| | After Flow Time | 1 ~ 25s |
| | Arc starting mode | High frequency arc striking |
| Efficiency | | ≥ 80% |
| Mass | | 25Kg |
| Protection Class of enclosure | | IP21S |
| Outline Dimension mm³ | | 430x 200x 290 |

KOBEWEL KT315P

I.G.B.T INVERTER DC PULSE TIG



Excellent Arc Start

Very excellent performance and suitable to wide application of thin, thick welding and automatic welding thanks to the arc start by super high speed PMW control system.

High Quality Function

The high speed inverter control guarantees quality welding by maintaining a stable arc even with current keeps as low as 5A. The selected welding current keeps stable despite variations in input voltage or ambient temperature and the steady arc ensure high efficiency regardless of hand-trembling while welding.

Realization of High Quality welding

High Quality DC TIG Welding

Kobewel's original inverter realizes a complete wave from so that excellent arc stability enables quality welding and helps weld nicely the corner of the thick plate.

STANDARD SPECIFICATIONS

| MODEL | | KT315P |
|-----------------------------------|-------------------------------|------------------------------|
| INPUT | Voltage | 3 x C380V / 400V / 415V 50Hz |
| MMA | No-load Voltage | 70V |
| | Base current Adjusting Range | 20 ~ 250A |
| | Rated Output Current | 250A |
| | Rated Duty Cycle | 60% |
| TIG | Pulse Current Adjusting Range | 20-315A |
| | Base current Adjusting Range | 20-315A |
| | Initial current (fix) | 40A |
| | Crater-fill current (fix) | 40A |
| | Rated Duty Cycle | 35% |
| | Current up-slope Time | 0~10S |
| | Current Down-slope Time | 0~10S |
| | Pulse Width Ratio | 0.1~0.9 |
| | Pulse Frequency | 0.5~25Hz |
| After Flow Time | 1~25s | |
| Efficiency | | ≥80% |
| Mass | | 30Kg |
| Protection Class of enclosure | | IP21S |
| Outline Dimension mm ³ | | 520 x 220 x 430 |

KOBEWEL[®] JAPAN

I.G.B.T.
TECHNOLOGY

ADVANCE A.C. / D.C. PULSE 300 500 TIG



Realization of High Quality Welding

High Quality AC TIG Welding

Kobewel's original inverter realizes a complete wave from so that excellent arc stability enables quality welding on aluminum plates to be performed and helps weld nicely the corner of the thick plate.

High Quality Function

The high speed inverter control guarantees quality welding by maintaining a stable arc even with current keeps as low as 4A. The selected welding current keeps stable despite variations in input voltage or ambient temperature, and the steady arc ensure high efficiency regardless of hand-trembling while welding.

Having Capabilities of 6 Power Sources

- A.C. TIG
- D.C. TIG
- D.C. Manual Welding
- A.C. Pulse TIG
- D.C. Pulse TIG
- TIG Spot

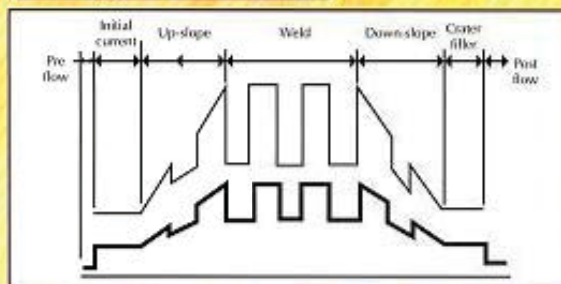
Outstanding Thin Plate Welding

The high speed pulse (50-500hz) current concentrates a fine and stable arc on the plate that it makes superb welding on 0.2 sheet metal, and low speed pulse (0.5-50hz) current achieves even bead.

• Features of Low Pulse and Middle Pulse

| Arc types | Low pulse | Middle pulse |
|--------------|---|--|
| Frequency |  (0.5-5Hz) |  (50-500Hz) |
| Applications | <ul style="list-style-type: none"> • thick plate welding • all position welding | <ul style="list-style-type: none"> • high speed thin plate welding • easy wire replacement |
| Surface | <ul style="list-style-type: none"> • Even bead  | <ul style="list-style-type: none"> • Fine and even bead  |

Block Diagram of Inverter Control



High Quality and Function

The high speed inverter control guarantees Quality welding by maintain a stable arc even with current as low as 4A. The selected welding current keeps stable despite variations in input voltage or ambient temperature, and the steady arc ensures high efficiency regardless of hand-trembling while welding.

• Welding Materials

| Material | AC TIG | DC TIG |
|------------------|--------|--------|
| Mild steel | | 0 |
| Stainless steel | | 0 |
| Molybdenum | | 0 |
| Aluminium | 0 | |
| Cast Aluminium | 0 | |
| Titanium | | 0 |
| Copper | | 0 |
| Aluminium Bronze | 0 | |
| Brass | □ | □ |

KOBEWEL I.G.B.T INVERTER TIG (GP)

I.G.B.T inverter is an advanced welding power source KOBEWEL is manufacturing. Whereas the output wave form control speed of the conventional reactor and thyristor control system does the job within 25 μ s, 300 time faster, so it improves the welding capabilities and operation radically.

Four Features of Inverter Pulse TIG

Compact, light weight, and energy saving

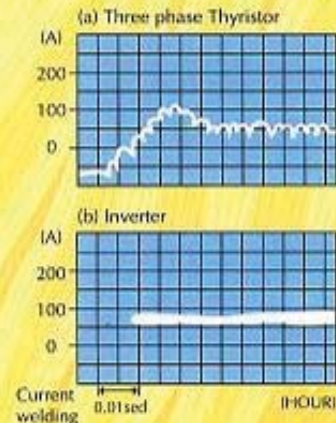
About 1/3 lighter, 1/5 smaller compared to thyristor by transforming a normal electric power source into a high-frequency one ranging double digit KHZ, economical by low AC input, and energy saving by cutting current during work pause.



100% Normal Start

Thanks to inverter control system, instant start (from low to high current range) is remarkable, and the selected welding current is rapidly achieved. The quality arc characteristics fit the automated welding.

TIG current wave form



SPECIFICATION

2-1 Welding Power Source

| Item | | unit | 300GP | | 500GP | |
|---------------------------|-------------|--------|-------------------------|-----------|-----------------|-----------|
| Rated Output Current | | A | 300 | | 500 | |
| Rated Input Voltage | | A | three phase 380v / 415v | | | |
| Rated Frequency and phase | | Hz | 50/60 | | | |
| Output Current Range | Three Phase | TIG | DC 4-300 | AC 10-300 | DC 4-500 | AC 10-500 |
| | Manual | A | DC 10-200 | | DC 10-300 | |
| Rated load voltage | Three Phase | TIG | DC 20 | AC 22 | DC 24 | AC 26 |
| | | Manual | 30 | | 34 | |
| Rated Input | Three Phase | TIG | DC 11 | AC 12 | DC 17.5 | AC 19.3 |
| | | Manual | 11.8 | | 19.3 | |
| Rated Duty Cycle | | % | 60 | | | |
| Maxim No-load Voltage | | v | 67 | | | |
| Initial Current Range | | A | 300A | | 500A | |
| Crater Current Range | | A | 300A | | 500A | |
| Pulse Current Range | | A | 300A | | 500A | |
| Down Slope Time | | Second | 0.1 ~ 5 | | | |
| ARC Spot Time | | Second | 0.1 ~ 5 | | | |
| After Flow Time | | Second | 0.1 ~ 25 | | | |
| Low Pulse Frequency | | Hz | 0.5 ~ 15 | | | |
| Middle Pulse Frequency | | Hz | 15 ~ 500 | | | |
| Pulse Width | | % | 15 ~ 85 | | | |
| Cleaning width | | % | 25 ~ 45 | | | |
| Dimensions | | mm | 385 x 535 x 635 | | 385 x 585 x 670 | |
| Net Weight | | kg | 61 | | 72 | |

NOTE : The Primary input voltage shall be confirmed when ordering.

コウベウエル工業

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