

# ST400/500/630

## Full-digital IGBT Inverter MMA Machine



- ☒ Gouging
- ☒ U-disk Upgrade
- ☒ MMA
- ☒ RFID
- ☒ SMARC IoT

## Product Features

- Suitable for welding of various acidic, alkaline, stainless steel and low-hydrogen rods
- Input voltage allows fluctuation range up to  $\pm 25\%$
- Being satisfied with long-distance operations, and stable welding is ensured when cable is extended to 100 meters
- Adjustment for thrusting current and arc initiation current can improve welding performance
- Equipped with VRD electric shock protection function to ensure safe welding
- ST500&ST630 has gouging function(maximum 12mm carbon rod for ST630)
- Enclosure protection level reaches IP23 and high-reliability design for harsh environments

## Application

Widely used in petrochemical industry, electric power construction, building construction, shipbuilding, steel structure and many other industries.



## U-Disk Interface

- To ensure customers conveniently obtaining Megmeet's foremost welding programs and function customization;
- Welding machine can be upgraded through U disk.



## RFID Card Linking

- RFID card swiping function enables quick linking between welder and welding machines;
- Coordinated with SMARC IoT welding information cloud-platform to realize more intelligent functions as: parameter issue, welding hours statistics, welding parameter traceability, etc.



## Technical Specification

| Manual Models                 | ST400                 | ST500                 | ST630                 |
|-------------------------------|-----------------------|-----------------------|-----------------------|
| Control Mode                  | Full Digital          | Full Digital          | Full Digital          |
| Rated Input Voltage           | 3 Phase AC 380V(±25%) | 3 Phase AC 380V(±25%) | 3 Phase AC 380V(±25%) |
| Input Frequency               | 50~60Hz               | 50~60Hz               | 50~60Hz               |
| Rated Input Power             | 17.1KVA/16.3KW        | 23.6KVA/22.2KW        | 32.4KVA/30.4KW        |
| Power Factor                  | 0.95                  | 0.94                  | 0.94                  |
| Efficiency                    | 0.885                 | 0.9                   | 0.91                  |
| Energy Efficiency             | Class A               | Class A               | Class A               |
| Rated OCV                     | 63V                   | 73V                   | 78V                   |
| Rated Output Current          | 400A                  | 500A                  | 630A                  |
| Rated Output Voltage          | 34V                   | 40V                   | 44V                   |
| Rated Current Range           | 30~400A               | 30~500A               | 30~630A               |
| Thrusting Current Range       | 0~200A                | 0~200A                | 0~200A                |
| Arc Initiation current Range  | 0~200A                | 0~200A                | 0~200A                |
| Duty Cycle                    | 400A@60%              | 500A@100%             | 630A@100%             |
| Protection Against Lightening | Class D               | Class D               | Class D               |
| Insulation Grade              | F (Reactor H)         | F (Reactor H)         | F (Reactor H)         |
| Ingress Protection            | IP23                  | IP23                  | IP23                  |
| Working Temperature           | -10°C~+40°C           | -10°C~+40°C           | -10°C~+40°C           |
| Dimension (L×W×H)             | 684×320×580mm         | 684×320×580mm         | 684×320×580mm         |
| Gross Weight                  | 34kg                  | 37kg                  | 38kg                  |
| Extended function             |                       |                       |                       |
| SMARC IoT (Optional)          | ✓                     | ✓                     | ✓                     |
| USB Upgrade                   | ✓                     | ✓                     | ✓                     |

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