

# IGBT DC MMA Inverter Welding Machine ZX7-630SE

This inverter welding machine performs electrode welding and air carbon arc gouging. It is widely applicable to industries including petroleum, chemical, power supply, metallurgy, and shipbuilding.



## Overview

### Industrial-Grade Inverter Welding Machine

The ZX7-630SE is a high-performance DC MMA inverter welding machine engineered for demanding industrial environments including shipbuilding, chemical processing, and power supply infrastructure. Utilizing advanced full-bridge inverter technology with dual IGBT and soft-switching, it delivers stable welding current even under fluctuating input conditions. This unit is designed for versatility, supporting electrode welding and air carbon arc gouging, with a robust protection system that ensures reliability and longevity in continuous heavy-duty operations.

## Performance Metrics

### Key Performance Indicators

**630 A**

Max Output Current

**60 %**

Duty Cycle

**88 %**

Efficiency

**0.96 COS $\phi$**

Power Factor

## Technical Specifications

### Electrical Data

| Parameter            | Value                  |
|----------------------|------------------------|
| Input Voltage        | 380V $\pm$ 10% 50/60Hz |
| Rated Input Capacity | 35 KVA                 |
| No-load Voltage      | 72 V                   |
| Output Voltage Range | 44 V                   |

### Physical Dimensions

| Attribute  | Value              |
|------------|--------------------|
| Weight     | 55 Kg              |
| Dimensions | 650 x 330 x 620 mm |

## Operational Capabilities

### Compatible Materials

- Carbon Steel
- Alloy Steel
- Cast Iron
- Stainless Steel
- Copper and Alloys

### Compatible Electrodes

- Acid Welding Rod
- Alkalescence Welding Rod
- Stainless Steel Welding Rod
- Cast Iron Welding Rod
- Cellulose Welding Rod
- Heat Resistant Steel Welding Rod

### Welding Manners

Electrode Welding, Air Carbon Arc Gouging, Contact TIG Welding

## Features & Protection

### Protection Class

IP21S

### Insulation Class

F

### Advanced Features

- Full-bridge inverter with dual IGBT
- Soft switch technology
- Pulse Width Modulator (PWM) closed-loop control
- Remote control socket for long-distance operation
- Automatic cable compensation up to 100M
- EMC electromagnetic compatibility