

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 ϕ

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