

ELECTRA KOKO TAWA

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COMMANDER 500

Welding Machine

Introduction

The ARC 500 COMMANDER Welding

Machine is a high-performance heavy-duty IGBT module-based inverter welder. Designed for industrial applications, it features an inbuilt Voltage Reduction Device (VRD), reducing welding voltage to a safe level (<36V) when the arc strikes from 89V. This innovation prevents electrode sticking and ensures instant arc strikes, delivering superior performance and safety.



Key Features

1. Advanced IGBT Technology:

- Equipped with a robust IGBT control system for stable and efficient operation.
- o Delivers smooth and reliable welding performance with high arc stiffness.

2. Inbuilt Voltage Reduction Device (VRD):

- Welding voltage reduces to <36V after arc striking to prevent electrode sticking.
- o Ensures operator safety and enhanced welding precision.

3. High Efficiency and Power:

- o Rated current up to 500A with a wide current range of 50A to 500A.
- Rated Duty Cycle: 100% at 390A, 60% at 500A, enabling continuous operation for demanding tasks.

4. User-Friendly Design:

- o Adjustable knobs for precise output control.
- o Compact and lightweight design for easy mobility and setup.

5. Industrial Durability:

- Designed for a wide range of materials, including carbon steel, cast iron, stainless steel, copper, and alloys.
- o Enclosure protection class IP21S for reliable performance in tough environments.

6. Energy-Efficient:

- o Achieves efficiency ≥85%, reducing energy consumption.
- o High power factor ($COS\phi = 0.99$) ensures optimal energy utilization.

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Technical Specifications

Parameter	Unit	ARC 500 COMMANDER
Output		
No-load Voltage	V	76
Working Voltage	V	22-40
Rated Welding Current	A	500
Current Range	A	50-500
Rated Duty Cycle	%	100% @ 390A / 60% @ 500A
Input		
Phases	Phase	3
Frequency	Hz	50/60
Supply Voltage	V	415
Rated Input Current	A	26
Maximum Effective Input Current	A	20
Rated Input Capacity	kVA	24
Efficiency	%	≥85%
Power Factor (COSφ)		0.99
Protection and Build		
Insulation Class		Н
Protection Class		IP21S
Weight	kg	25
Dimensions (L×W×H)	mm	510 × 250 × 483

Applications

- Industrial Fabrication: Welding for large-scale fabrication projects.
- Construction: Ideal for structural welding in construction sites.
- Heavy Equipment Repair: Reliable for maintenance and repairs.
- Pipeline Welding: Suitable for demanding pipeline construction and repair tasks.
- Benefits
- Enhanced Arc Strength: Superior arc stiffness for cleaner and stronger welds.
- Safety-Driven Design: VRD minimizes risk during operation, ensuring user safety.
- Cost-Effective: High efficiency and reduced energy consumption lower operational costs.
- Durability: Designed for rugged industrial use with advanced protection features.

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