COMMANDER-400

ARC/MMA Welding Machine



Introduction

The **COMMANDER-400 Welding Machine** is a robust and reliable three-phase arc welding machine with DC output. Designed for heavy-duty industrial applications, it features advanced inverter technology to deliver consistent and efficient welding performance. Compact and durable, this machine is ideal for various welding requirements in challenging environments.

Technical Specifications

Parameter	Unit	COMMANDER-400
Output		
No-load Voltage	V	67
Working Voltage	V	21.8-38
Rated Welding Current	A	400
Current Range	A	40-400
Rated Duty Cycle	%	100% @ 275A / 60% @ 400A
Output Characteristics		Constant Current Characteristics
Input		
Phase		3
Frequency	Hz	50/60
Supply Voltage	V	415
Rated Input Current	A	24
Maximum Effective Input Current	A	14
Rated Input Capacity	kVA	12.5
Efficiency and Protection		
Efficiency	%	≥85
Power Factor (COSφ)		0.99
Protection Class		IP21S
Insulation Class		H
Physical Specifications		
Weight	kg	10
Dimensions (L×W×H)	mm	430 × 230 × 408

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Key Features

1. **High-Performance Welding:**
   - Delivers a rated output of **400A** with an adjustable current range of **40A to 400A**.
   - Rated duty cycle of **100% at 275A** and **60% at 400A**, ensuring continuous operation for demanding tasks.
2. **Advanced Inverter Technology:**
   - High efficiency of **≥85%** for energy savings and reduced operating costs.
   - **Power Factor (COSφ): 0.99**, ensuring optimal power utilization.
3. **Durable and Safe Design:**
   - **IP23 Protection Class** for reliable performance in rugged industrial conditions.
   - **Insulation Class H** ensures enhanced thermal stability.
4. **Compact and Lightweight:**
   - Weighs only **16 kg**, making it portable and easy to handle.
5. **Complete Package:**
   - Includes **welding cable with holder** and **earthing cable** (2.5m each) for immediate use.

Package Includes

- **Power Source:** COMMANDER-400 welding machine.
- **Welding Cable with Holder:** 2.5 meters.
- **Earthing Cable:** 2.5 meters.

Applications

- **Industrial Welding:** Perfect for heavy-duty tasks, including fabrication and construction.
- **Repair and Maintenance:** Reliable for workshop and field repair operations.
- **Construction Projects:** Suitable for structural welding and other demanding tasks.
- **Benefits**

- **Reliable Performance:** Delivers consistent welding output for various applications.
- **Energy-Efficient Design:** Reduces power consumption without compromising performance.
- **Rugged Construction:** Built to withstand harsh industrial environments.
- **User-Friendly:** Compact, lightweight design with included cables for easy setup.

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