



**MAXIARC 250-1/250-3/320LT**

***Stick to Excellence***  
***Power up with DC inverter welding***



# MAXIARC250-1/250-3/320 LT

Stick/VRD/Lift Tig Power Source  
4.3" LCD Display



## Quick Guide

### Applications

Semi-Industrial  
Industrial

### Processes

MMA (SMAW)  
MMA VRD  
LIFT TIG

### MAXIARC250-1 LT

**Input Power** 1 ph 220v  
**Rated Output**  
Lift Tig: 250A,60% duty cycle at 1ph 220v  
MMA: 250A,60% duty cycle at 1ph 220v  
**Amperage Range** 10-250A  
**Net Weight** 8.8kgs  
**Dimensions** 420\*190\*285(mm)

### MAXIARC250-3 LT

**Input Power** 3 ph 400v  
**Rated Output**  
Lift Tig: 250A,60% duty cycle at 3ph 400v  
MMA: 250A,60% duty cycle at 3ph 400v  
**Amperage Range** 10-250A  
**Net Weight** 10kgs  
**Dimensions** 457\*189\*350(mm)

### MAXIARC320 LT

**Input Power** 3 ph 400v  
**Rated Output**  
Lift Tig: 320A,60% duty cycle at 3ph 400v  
MMA: 320A,60% duty cycle at 3ph 400v  
**Amperage Range** 10-320A  
**Net Weight** 17.6kgs  
**Dimensions** 485\*240\*445(mm)

## MAXIARC250-1/250-3/320 LT



Range marks a significant advancement in welding technology by offering MCU control system, large LCD display, superior performance, high duty cycle, efficiency, and versatility in a compact and user-friendly package. This range is suitable for professional welding purpose, highly quality welding job and heavy duty industry.

## Reliability



275Volts tested in production



Moisture proof  
Salt Spray proof  
Corrosion proof



Over heat protection



Over voltage protection



Over current protection



Portability/Stable Arc/Precise Settings/Start-up Performance/Fan on demand/Voltage Reduction Device (VRD)/Lift Tig make MAXIARC250-1/250-3/320 LT popular choices among welders looking for efficiency, portability, and enhanced welding performance in various applications.

# Features and Benefits

## **Portability**

It is 10 kgs, it is typically smaller, lighter, and more compact than traditional welding machines, making them easier to transport and maneuver.

## **Stable Arc**

Inverter technology often provides a more stable arc, which can lead to better weld quality and control.

## **Precise Settings**

LCD display offers more precise control over welding parameters such as amperage and arc characteristics, allowing for better adaptation to different materials and thicknesses.

## **Start-up Performance**

It often has superior start-up characteristics, providing instant arc ignition and minimizing sticking during welding.

## **Fan on demand**

Provides energy efficiency, reduced noise level and improved reliability.

## **Voltage Reduction Device (VRD)**

Enhances safety by reducing the risk of electric shock both during welding and when the machine is idle.



## **Lift Tig**

Allows welders to perform both stick(SMAW) welding and TIG(GTAW) welding using the same machine



*Side view*



*Front view*



*Rear view*

# Control Panel



## ***Control Panel Features***

- 4.3" LCD display for all welding settings display.
- Mode button for selections of Stick, Stick VRD and Lift tig mode.
- Encoder for features selection and parameters setting.



### ***The control pad for air plasma cut mode***

Cutting data setting includes mode switching (Stick, Stick VRD, Lift tig) , welding current, welding voltage, arc force, hot start



Error codes displayed on LCD screens can vary widely depending on the machine you are referring to. It indicates specific issues or malfunctions that the device has detected.



Languages and Units can be customized, and they can be selected easily from the menu setting on LCD display.

# MAXIARC250-1/250-3/320 LT Optional Accessories

## Machine Optional Accessories

- Earth Clamp
- Electrode Holder



## Genuine MAXIARC250-1/250-3/320LT Accessories

### ***Earth cable and earth clamp***

Earth cable and earth clamp play critical roles in electrical safety by providing reliable grounding connections to protect personnel, equipment and facilities from electrical hazards and ensure proper functioning of electrical and welding system.

Cable section can be selected from 6mm<sup>2</sup> to 120mm<sup>2</sup>.

Color of PVC jacket can be customized.

Earth clamp types can be customized.



### ***Welding cable and electrode holder***

Welding cables are flexible, highly quality insulation and heavy-duty cables designed to carry the electric current from the power source to the electrode holder and ultimately to the work-piece. High insulation, jaw mechanism and heat resistance ensure efficient welding operation and electrode performance.

Cable section can be selected from 6mm<sup>2</sup> to 120mm<sup>2</sup>.

Color of PVC jacket can be customized.

Electrode holder types can be customized.





### ***Welding gloves***

Designed to provide protection to the hands and wrist of welders with excellent materials, heat resistance, insulation, durability and comfort.



### ***Welding apron***

Choosing the right welding apron depends on factors like the type of welding being performed (MIG, TIG, stick welding, etc.), comfort preferences, and the level of protection needed. Ensuring proper protection with a welding apron is essential for welders to work safely and confidently.

## **Machine parameters**

Model	MAXIARC 250-1		MAXIARC 250-3		MAXIARC 320 LT	
Input voltage	1-220V 50/60Hz		3-400V 50/60Hz		3-400V 50/60Hz	
Process	MMA	TIG	MMA	TIG	MMA	TIG
Effective current(A)	43.8	31	14.2	10.1	18.9	14.3
Rated input current(A)	56.5	40	18.3	13	24.4	18.4
Rated input power(KW)	13	9.2	12.7	9	9.8	7.4
Duty cycle 40°C 10min	60%250A 100%195A		60%250A 100%195A		60%320A 100%250A	
Welding current(A)	10-250		10-250		10-320	
No load voltage(V)	78.5		78.5		86	
Efficiency	85%		85%		85%	
Power factor	0.7		0.7		0.7	
Insulation class	F		F		F	
Protection class	IP21S		IP21S		IP21S	
Dimensions(mm)	420*190*285		457*189*350		485*240*445	
Net weight(kg)	8.8		10		17.6	

# Special symbols



Single phase



Direct current



Constant current



Voltage Reduction Device



Three phases



LCD Display



MCU Control System



Generator Friendly



275V Tested in production



Moisture proof  
Salt Spray proof  
Corrosion proof



Hot Start



Arc Force