

AMERARC™ I-150 INVERTER ARC WELDING MACHINE



DESCRIPTION

The AMERARC I-150 Inverter Arc Welding Machine is a constant current arc welding rectifier providing 140 amps welding current at 55% duty cycle, 105 amps at 100%. Open circuit voltage is 48 volts. The AMERARC I-150 machine can be connected to any 230 volts + 15%, single-phase, 50/60 Hz supply providing 20 amps. The control includes compensation for line voltage variations up to 10% while welding. The machine weighs 6.7 kg (13 lb.) and measures 150mm x 225mm x 315mm (6.0 x 9.0 x 12.5 in.) and is supplied with a shoulder strap for carrying. Also included with the package are a 3m welding cable with electrode holder and a 3m ground cable with ground clamp and two male connectors.

The AMERARC I-150 Arc Welding Machine provides two modes of operation, controlled by a toggle switch, one for stick electrode welding (SMAW) and the other for LIFT-TIG welding (GTAW) without high frequency. The unit has thermal overload protection indicated by a warning light on the control panel. The machine produces an extremely stable DC welding current which is adjustable by a single potentiometer control on the panel.

APPLICATIONS

The AMERARC I-150 Arc Welding Machine is best suited for routine shipboard maintenance and repairs utilizing the stick welding process (SMAW) with electrodes up to 4.0mm diameter and also TIG welding (GTAW) of mild and stainless steels using argon shielding gas without high frequency stabilization. The arc is started using the LIFT-TIG feature by contacting the cold tungsten electrode to the workpiece with the argon gas flowing. Lift the torch several millimeters off the work and the arc is established immediately and TIG welding can proceed. No electrode contamination will occur if the electrode is cold at the start. The short circuit current is limited to approximately 5 amps thus no heating occurs.

The exceptionally smooth and well regulated output results in high quality welds with excellent appearance using AMERARC SSMO, AMERARC STV or AMERARC ST electrodes on stainless steel.



AMERARC I-150 Arc Welding Machine
(PCN 0595308)

PERFORMANCE

- Auto adaptive arc force continuously measures the arc voltage to adjust welding power. This optimizes arc stability without the risk of electrode sticking and minimizes spatter.
- Reliable inverter technology provides a lightweight, portable welding system.
- Stepless welding current adjustment from 4-150 amps output.
- Automatic overload protection shuts the machine down if the duty cycle rating is exceeded.
- Line voltage compensation automatically maintains the output current level in spite of input voltage variations of $\pm 10\%$.
- Choice of soft/crisp or LIFT-TIG welding made by toggle switch.
- Meets IEC 974-1 regulation and IP23/F protection, CE approved. (EN 60974-1).



Contact your Drew Marine representative for more information

TECHNICAL SPECIFICATIONS

Input: 230 volts \pm 15%, single-phase, 50/60 Hz

POWER AT RATED OUTPUTS

	Duty Cycle	
Output	@20° C	Input Power
140 amps @ 25.8V	35%	4.4KW
105 amps @ 24.2V	100%	3.0KW
Output Range:	5-150 amps	
Open Circuit Voltage:	48 volts DC	

SIZE AND WEIGHT

Dimensions

150mm x 225mm x 315mm

(6.0 x 9 x 12.5 in.)

Weight

6.7 kg (14.8 lb.)

HOW TO ORDER

AMERARC™ I-150 inverter arc welding machine (PCN 0595308) with welding and ground cables, with installed electrode holder and ground clamp with two male connectors.



Contact your Drew Marine representative for more information

Drew Marine maintains Safety Data Sheets on all of its products. These documents contain health and safety information for the development of appropriate product handling procedures to protect your employees. Safety Data Sheets should be read and understood by all of your supervisory personnel and employees before using Drew Marine products.



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