The AMERARC I-401S welding machine is a lightweight and reliable, constant current (CC) inverter arc welder. The rugged, compact and very portable case with carrying handle makes it well-suited for shipboard maintenance and repair activities. The machine operates on single- or three-phase, 50/60 Hz, 208-230/400/460 VAC supply voltages and now supplies 400 amps of direct current at 25% duty cycle, (300 amps at 60% duty cycle). A high quality arc is assured, even at a minimum of 5 amps, for precision TIG (Gas Tungsten Arc Welding) welding, using the LIFT-TIG operating mode. The machine also has excellent arc characteristics for all STICK (Shielded Metal Arc Welding) welding applications and is ideal for handling electrode sizes of 1.6 – 5.0 mm.

The I-401S has an additional Carbon Arc Gouging setting to optimize the machine performance during this process. There is a built in Resonance Inverter with Digital Control, where the welding arc is controlled by six Micro-controllers that monitor current and voltage at 1.5 million times per second. The automatic multi-voltage input allows the machine to sense the input power and automatically adjust for it with no need for any mechanical switchover process. The I-401S has 100 AMPS more power than its predecessor, the I-300S. It weighs 51lb (23kg).

### FEATURES

- Resonance inverter with digital control
- Leading power efficiency from multi volt 1&3 phase
- Easy to use/excellent portability
- Digital voltage and amperage / wire speed meters
- Approvals: iec, csa, ul
- MICOR Technology
- Embedded micro-processor with digital controls
- Multi-voltage input
- Remote receptacle fitted
- Warning diagnostics
- IP23 (International Protection Rating)
- Standards compliant integrated Voltage Reduction Device (VRD) embedded

### BENEFITS

- Arc process monitoring at 1.5 Million times per second
- Up to 25% power savings vs. Other inverters
- 40% Lighter than comparable machines
- Preview and hold and job save capability
- Enables the use of longer primary cables, reduces power consumption, less weight, smaller size
- Delivers perfectly smooth, stable arc characteristics for PIPE and low hydrogen electrodes
- Accepts 208-230/400/460 VAC, 1 or 3 Phase, 50 or 60 Hertz. No mechanical changeover, very versatile
- Allows remote devices to be connected for controlling amperage and output contactor
- Alerts operator to power supply abnormalities
- Suitable for marine use
- VRD reduces OCV when the power supply is not in use. Can be turned on to reduce shock hazard making welding safer.

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