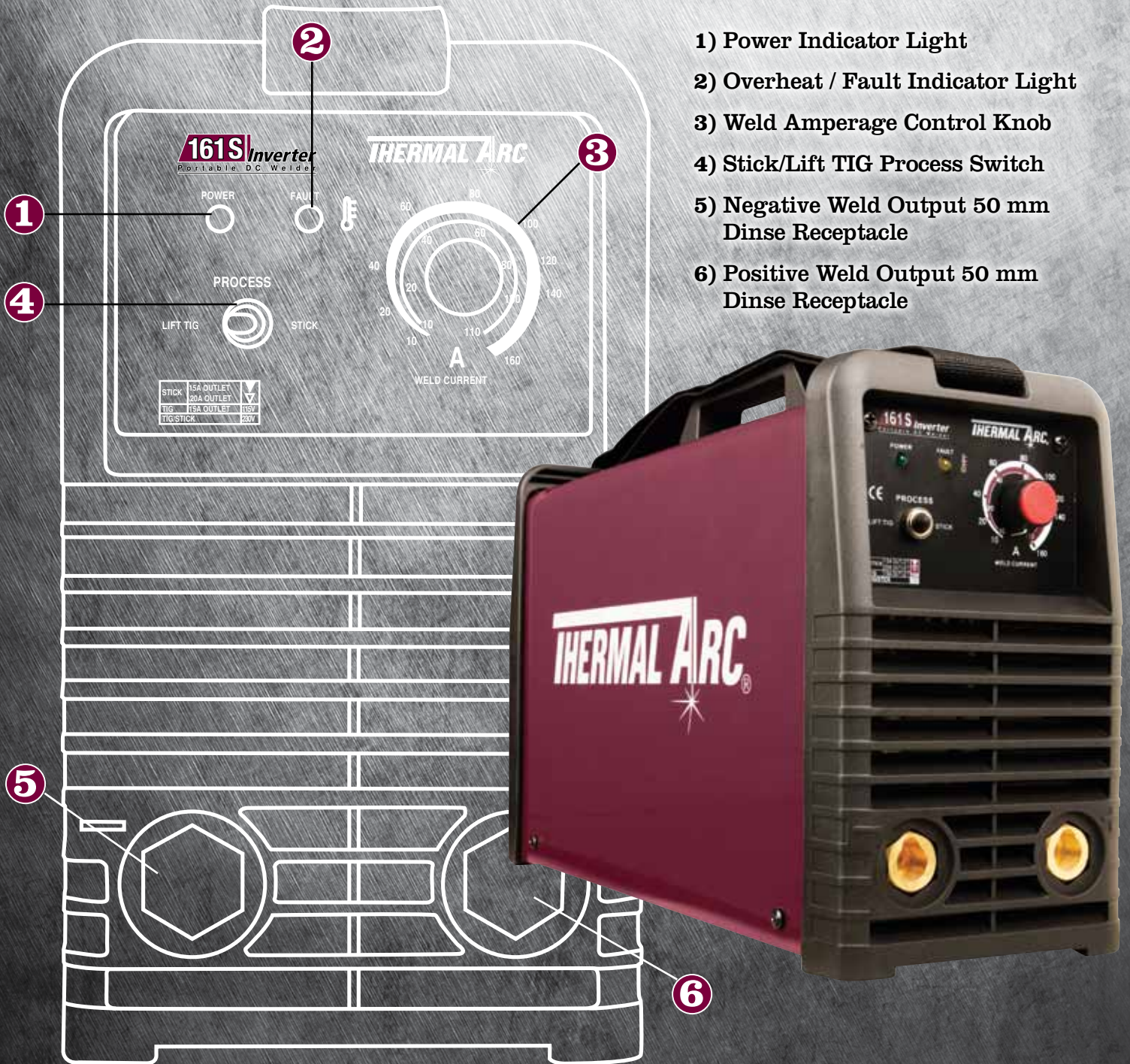


161S INVERTER

PORTABLE DC WELDER



- 1) Power Indicator Light
- 2) Overheat / Fault Indicator Light
- 3) Weld Amperage Control Knob
- 4) Stick/Lift TIG Process Switch
- 5) Negative Weld Output 50 mm Dinse Receptacle
- 6) Positive Weld Output 50 mm Dinse Receptacle

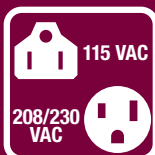
FAN COOLED



THERMAL OVERLOAD



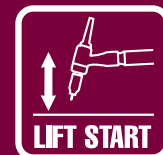
INPUT POWER



STICK WELDING



TIG WELDING



WARRANTY



161 S INVERTER:



The Thermal Arc® 161 S Portable DC Welder is designed for Stick & Lift TIG welding operations and provides a greater range of output for the advanced hobbyist or light industrial applications.

It is capable of delivering 110 Amps on 115 Volt circuits for Stick & TIG welding. When used on 208-230 Volt circuits, maximum output is 160 Amps for either welding process.

This welder features optimized hot start and arc-force circuits delivering superior arc starting and control when Stick welding.

MACHINE FEATURES:

- * Versatile, multi-process Stick/TIG capability
- * 160 Amps maximum welding output
- * Multi-voltage input power 115 & 208/230 VAC
- * Excellent, smooth & stable arc performance
- * Highly efficient inverter design
- * Lightweight and portable
- * Simple & easy, ready to weld package

MACHINE SPECIFICATIONS	
Type: Constant Current	DC Stick & TIG Welder
Maximum Output	160A
Welding Amperage Range 115V	Stick & TIG 10-110A
Welding Amperage Range 230V	Stick & TIG 10-160A
Rated Output: Stick 115V, 15A	70A / 22.8V @ 60%
TIG 115V, 15A	100A / 14V @ 60%
Stick 115V, 20A	100A / 24V @ 35%
TIG 115V, 20A	110A / 14.4V @ 30%
Stick 230V	160A / 26.4V @ 30%
TIG 230V	160A / 16.4V @ 30%
Nominal OCV Volt/DC	71V
Power Source Dimensions: (H x W x D)	9.0" (229mm) x 5.3" (135mm) x 15.5" (394mm)
Power Source Weight	17.4 lbs. (7.9kg)
Warranty	3 Years
PRIMARY POWER	
Primary Voltage	115/208-230V
Hertz	50/60 Hz
Phase	1 PH
Designed To	IP23S
Approvals	EN 60974-1

Stick Welding Package (Part No. W1003602)

- * Thermal Arc 161 S inverter welding power source
- * Tweco® WeldSkill® 200 Amp electrode holder with 13ft (4m) lead
- * Tweco WeldSkill 200 Amp ground clamp with 10ft (3m) lead
- * Adapter plug from 230V 50 Amp to 115V 15 Amp circuits
- * Operating manual
- * Product family overview DVD
- * 4 general purpose stick electrodes (E6013)
- * Carry case

Pictured: Stick/TIG Package

Stick/TIG Package (Part No. W1003603)

- * INCLUDES ALL ITEMS ABOVE PLUS:
- * 17V style TIG torch 12.5ft (3.8m) & accy. kit
- * Victor® Argon regulator / flow gauge



U.S. Customer Care: 800-426-1888 / FAX 800-535-0557 • Canada Customer Care: 905-827-4515 / FAX 800-588-1714
International Customer Care: 940-381-1212 / FAX 940-483-8178 • www.thermalarc.com