

PowerARC 161STH



DC Digital Stick Series



Handle it like a Pro.

- ▶ Fab or repair it with Stick or TIG.
- ▶ Dominate DC TIG with the *E-Z* Pulse system.
- ▶ Weld stably with E6010 Stick Setting.
- ▶ Power through with a 35% Duty Cycle @ max setting
- ▶ Carry it where you need it with 120V/240V input.
- ▶ Sleep easy with a 5 year *parts and labor* warranty.



You don't have to sacrifice.

Pro-level performance as a Stick or TIG welder.

Simple and straight forward, the PowerARC 161STH delivers performance that does not compromise the integrity of either welding process. Whether you need to use the PowerARC 161STH as a TIG welder or a Stick welder, you will find that it performs equally well in either process. Both TIG and Stick processes feature advanced welding capability for professionals who demand a lot out of their machines. Stick mode features advanced functions such as Hot Start, Arc Force Control, Anti-Stick, and VRD (voltage reduction device for safety). That's more than enough to satisfy the demands of most professional welders who need complete control over the welding arc. And for those customers needing competent E6010 capability, the PowerARC 161STH performs well with an improved, crisp arc. As far as TIG capability goes, the unit features DC welding output. The added ability to select HF Start, Remote Lift Start, or Live Lift Start gives the operator plenty of start styles to choose from. The welder can be used with either an optional foot pedal or torch switch (included). If needed, it also may be used without any arc activating control device in the live lift mode. The PowerARC 161STH includes out-the-front gas connection with a solenoid gas valve to control gas flow timing. Quite simply, the PowerARC 161STH offers far more than meets the eye as a TIG welder because it also features an E-Z pulse function (up to 250Hz), down slope, pre-flow and post-flow settings for added weld control.

Simple, reliable digital control for durability.

When the PowerARC 161STH was on the drawing board, we wanted to improve weld function, reliability, and performance. We felt that the best way to accomplish this was to digitize the design with a microprocessor. By doing so, we reduced overall components and circuitry and made it easier to maintain and service. One thing we really didn't want was to create a complicated digital design that was prone to slowing down or impairing setup by having hidden controls or features. This new design has all controls and features right on the panel so you can have access to all controls and features without having to plow through a bunch of screen menu steps. We think we succeeded by using simple toggle buttons and a single, centrally located parameter control knob. Features can be easily turned on or off by a touch of a button. You can quickly and easily adjust the pulse frequency without entering a setup menu. With the new digital control design you get all the benefit of digital reliability and almost none of the complicated setup process that is associated with most digital designs.

Specifications

Process: DC SMAW/DC GTAW-P

Input: I:MAX: 120V, 29.7A / 240V, 28.8A I:EFF: 120V,18A/ 240V, 17A

OCV: 70V

Weight: 25 LBS

Output: 120V: 10-90A; 240V: 10-160A TIG/Stick

Protection: IP21S

Insulation grade: F

Dimensions: 6.5"x11.5"x16.5"

Duty Cycle: 35%@90/160A, 40° C

Electrode Diameter: 1/16"– 1/8"

Classification: Commercial Fabrication

Input Cable Gauge/Length: 6'/12 AWG

Everlast Power Equipment

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All specifications, accessories and options are subject to change without notice.

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Panel Configuration and Details



1. E6010 Stick function for welding with cellulose rods.
2. VRD function reduces Stick OCV for safety where required. <24V.
3. Selector toggles between parameters for adjustment (See more details on adjustable parameters below.)
4. Anti-Stick feature terminates welding output when the welding rod sticks for easy rod removal and safety.
5. Parameter control adjusts highlighted parameter values.
6. E-Z Pulse simplifies setup with Hz only adjustment. (.1-250 Hz)
7. Mode selector selects between Stick or TIG welding.
8. Start mode offers choice of TIG arc start. Type: High Frequency, Lift Start (with remote) or Live Lift (no switch or pedal with live Tungsten).
9. Remote function chooses how the unit operates with the remote (pedal or 2T/4T torch switch operation).
10. Display/LEDs indicate function value (#3) and value being adjusted.

Adjustable Parameters:

1. Amps. Controls Amp setting (5-160A).
2. Stick Hot Start Intensity. Controls aggressiveness of the arc start in stick mode. (0-100 % over standard arc amps)
3. Stick Hot Start Time. Controls the amount of time the hot start stays engaged. (0-2 Seconds)
4. Stick Arc Force. Controls the amp reaction to the drop in arc voltage when the arc gap is shortened or closed in an effort to maintain welding wattage. This operates over and above chosen amps. Activates when volts drop below 20V. (0-100% of available arc force action)
5. TIG Pre-flow. Allows gas flow before the weld begins to improve shielding of weld metal to prevent oxidation and reduce porosity. (0-25 Seconds)
6. TIG Down-slope. Used with torch switch, allows the arc to taper and provides time for the crater to fill as before the arc terminates. (0-10 Seconds)
7. TIG Post-flow. Provides gas flow after weld termination to provide torch cooling/post weld shielding as puddle cools and solidifies. (0-25 Seconds)
8. TIG Pulse. Controls the number of times per second the unit pulses. All other pulse features are controlled by the factory installed EZ pulse programming of the unit for simplified setup. (.1-250Hz.)

Standard Equipment and Options



Standard Kit:

- 12.5 ft. 17 Series TIG Torch, DINSE 25
- 9 ft. Cable with 250 A Electrode Holder, DINSE 25
- 9 ft. Cable with 250 A Work Clamp, DINSE 25
- Ball Type Brass Flow Meter
- Starter TIG Kit (No Tungsten)
- 240V to 120V Pigtail Adapter



Customer Favorite Options:

- NOVA 17 Rota-Flex Torch, with 25 ft. Ultraflex cables #RF-17-125-25QD
- NOVA Long Life (2 Million Cycle) Foot Pedal #EV-FP22NWI
- NOVA Amp Control Slider #NVA-SLDR-1
- Everlast 17/26/18 Stubby Gas Lens Kit #E-WP17-26-18-SKT

Everlast proudly offers optional accessories and products from NOVA Welding Industries.



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