Finally, an affordable pro stick welder is here.

The PowerARC 280STH is a professional-minded inverter welder that is capable of providing all the amperage you need to weld up to 250A Stick and 280A TIG. This unit is designed to handle any welding rod you have in your hot box: E6010, E6010 5P+, E7018, 309L, and more. This unit has two separate settings for Stick. One for cellulose type rods like E6010, and another setting for everything else. This allows the unit to provide the forceful, driving arc needed for penetration with E6010 type rods, while providing a smooth, spatter free weld with other classes of rods. The PowerARC 280STH features Hot Start Time and Intensity control for smooth, easy starts. Arc force (Dig) control is also included and can be adjusted to suit the operator’s welding habits. To round off the unit as a true work-place machine, the unit features VRD for safety if required.

The DC TIG function features Pulse capability up to 250Hz and offers full foot pedal function along with 2T and 4T torch switch sequencer functions. The operator may select from HF or Lift TIG start.

Features that have a purpose

- Reliable name-brand IGBT components offer excellent performance and serviceability in a compact TIG.
- Microprocessor control provides precise digital control over DC welding functions.
- HF starting or Lift TIG starting provided.
- Standard DINSE 50 style power connectors for industry cross compatibility of torches and fittings.
- Easy to navigate panel reduces setup time without having to access hidden menus.
- E6010/Standard Stick feature allow user to set the welder for ideal arc behavior for the rod being used.
- Adjustable Hot Start/Intensity helps prevent rod sticking
- Self diagnostic feature helps protect unit and automatically diagnosis certain faults.
- Greatly simplified and componentized design improves reliability and serviceability.

Features that perform

- Fully adjustable DC pulse up to 250 Hz controls heat on almost any metal.
- Arc Force control improves arc stability and control in short arc situations.
- Voltage Reduction Device (VRD) reduces OCV for a safer stick welding environment.
- Lift start feature for operation in welding environments where HF use is restricted or unwanted.
- Use with the remote torch switch or items such as a torch amptrol or foot pedal.
- Fully adjustable Pre/Post flow, Start/End Amps, Up/Down Slope for complete arc control in TIG mode.

Features that stand out

- 35% duty cycle in TIG mode at the maximum output.
- 35% duty cycle in Stick mode at the maximum output.
- Digital display displays maximum preset amperage and changes to display actual output while welding.
- Welding package includes torches, and regulator.
- Low as 5 Amp DC TIG Start for excellent control on thin metals while TIG welding.
Performance Specifications:

- DC Pulse Frequency: 1-250Hz
- Pulse Time On Balance: 5-95%
- Pulse Amps Ratio: 5-95%
- Minimum DC TIG Start: 5 Amps
- Pre-Flow Time: 0-25 Seconds
- Post-Flow Time: 0-50 Seconds
- Up Slope Time: 0-25 Seconds
- Down Slope Time: 0-25 Seconds
- Start Amps: 5A-280A
- End amps: 5A-280A
- Stick Arc Force Control: 0-100%
- Stick Hot Start Time: 0-2 Seconds
- Stick Hot Start Intensity: 0-100%
- 2T/4T Control: Yes
- Foot Pedal Control: Yes
- HF Start: Yes
- Lift Start: Yes
- Memory: No (Only Last Pgrm.)
- TIG Amp Range: 5-280A
- Stick Amp Range: 20-250A

Safety/Unit Protection Features:

- Over Temperature Warning: Yes
- Over Current Warning: Yes
- Voltage Reduction Device (VRD): Yes, <24V
- Switch: Breaker Type

All specifications subject to change without notice.