



POWERTIG 185DV

GTAW-P/ SMAW

Specifications

Process:	GTAW-P/ SMAW	Input:	120/240V	TIG Range (120V) 240V:	DC TIG: 5-(125A)185A, AC TIG: 20-(125A)185A	I1Max (Inrush) (120V) 240V:	(34A) 29A	I1Eff (Rated) (120)240V:	(21) 17A
TIG Duty Cycle:	120V: 35% @ 125A/15V 240v: 35% @ 185A/17.4V	OCV:	74V	Stick Amp Range: (120V) 240V:	DC Stick: 5-(100A) 150A AC Stick: 20A-(100A)150A	TIG Pulse Frequency DC:	1 or 50 Hz	TIG Torch Type:	26 Series Rigid 12.5 Ft
Stick Duty Cycle:	125V: 35% @ 100A/24V 240V: 35% @ 150A/26V	Weight:	40 lbs.	Dimensions:	20" L x 12"H x 7"W	TIG Pulse Frequency AC:	1 or 50 Hz	AC TIG Balance:	10-90% + (positive)

Best Little Powerhouse.

Compact Case and Lightweight

The size and weight of this unit makes this unit the perfect go anywhere welder, with plenty of power for its frame.

Analog Knobs/Digital Control

While the unit enjoys the improved reliability and serviceability of internal digitally controlled components, the interface is still analog style to preserve that traditional feel, and at-a-glance knowledge of all your settings.

35% Duty Cycle

The cooling capacity of this machine is a bit above average if you compare with major competitors in the industry for a machine of this size and output class.

Quick Gas Connection

Everlast has pioneered the use of gas quick connects in the industry. Now others are following. Rather than needing a couple of wrenches and about five minutes of change over time, you can now remove or change your torch in mere seconds.



Dual Voltage 120/240V Operation

Look on the back and you'll see that the unit is designed to operate on 120V or 240V input. No switching of terminals needed. The unit automatically senses the voltage when the supplied 240V to 120V adapter is used.

Adjustable AC Frequency and Balance

This is something you won't find on any other welders in this class, especially the range of adjustment that this unit offers. When welding in AC on Aluminum AC frequency helps to focus the arc and control heat. AC balance helps to maintain the tungsten and control the cleaning width.

Simple, Easy-To-Use Pulse Function

No need to rely on complicated charts and menus to set up your machine. Simply select the desired useable setting automatically.

Easy Change of Polarity

This unit makes changing from TIG to Stick and back again an easy task via the use of 25mm² DINSE Type Connectors.



5 Year Parts and Labor Warranty

Simply the best warranty in the business. Who else offers this without paying extra, or giving you a long list of exclusions?

Uses: Fabrication, Home Hobby, Light Fabrication, and Motor Sports

Pro or Hobby Welder? Both Actually.

More than just a basic starter TIG.

There are a few welders on the Market that compete in the 185A category. The problem is that they don't offer much in the way of features or adjustability. These are just basic starter TIGS, advertised as "fun" or "hobby". And to be honest, they aren't that small or compact either by comparison. In fact, they can be a chore to carry around. But if you take a look at the weight and size of the PowerTIG 185DV, you'll find that it really does fit the definition of a "compact". If you do decide to go portable, or have an operation where 240V may not be readily available yet, the unit can be operated on 120V (with slightly reduced output). The unit will automatically sense the voltage change and adjust output accordingly, when used with the included 240V to 120V pig-tail plug adapter. You won't need to remember to flip any switches, or rewire anything.

But really there's more to this welder than just being a compact solution to portable welding needs. This welder has professional level features and adjustability where the competition doesn't. Even though the features are geared toward the professional welder, it doesn't mean that the hobby user won't benefit from it either. In fact we've included the bare essentials we believe a pro-level user would make use of, but didn't overwhelm the unit

with a bunch of "extras" that only a Pro could understand. This unit can be used with a foot pedal, or with the torch switch, thanks to the 2T/4T function of the welder. The unit includes a downslope function that is used through the use of the torch switch, making out of position welding an easier task without having to worry about the foot pedal to tail out and feather off the weld Amperage. Adjustable Post flow also helps the user to optimize the best post-weld cooling and shielding for the torch and the weld. This function helps to prevent weld oxidation and is a desirable feature for the Professional and Hobby user as well. Adjustable AC balance and adjustable AC frequency are two additional, easy-to-understand features that benefit both pro and hobby users while welding aluminum without having to have formal training. AC balances is used to control the cleaning area in advance of the weld puddle. This is important to those that have strict standards on weld etching and weld aesthetics. AC frequency is used to control arc cone width and helps to improve the "normally" lazy AC arc that can be prone to wandering. It really can be used to pinpoint the weld arc and puddle. One feature that addresses needs of both the pro and hobby user is the pulse feature. Available in AC or DC modes, the Pulse helps to improve bead appearance and heat control. But it is kept simple with two "just right" settings that are optimized for best performance.

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

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Layout of the Panel Explained

LED Warning Center

After confirming the unit is on and ready for use, the unit is designed to sense and report any major problems. Whatever the issue, the LED will light and unit will indicate a code in the display and output will be interrupted until the issue is corrected.

Down Slope Function

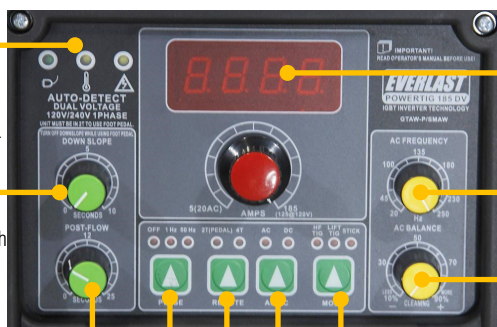
0-10 Seconds. This feature is designed for exclusive use with the 2T and 4T functions with the torch switch. This controls the amount of time it takes to taper off the welding Amps when arc termination is desired.

Post Flow Function

0-25 Seconds. This helps the user to protect the weld from oxidation immediately after weld termination by providing an adjustable amount of gas flow time after the weld is terminated.

Simple Pulse Operation

1Hz or 10 Hz. Choose between 1 Hz for improving the weld appearance or 50 Hz to help control the arc cone and heat and warping. All other parameters of the pulse



Digital Display

Accurately select and know the Amperage. While welding the display displays actual welding Amperage.

AC Frequency Control

20 to 250Hz. The adjustable frequency allows the user to improve arc focus and control heat spread while welding Aluminum.

AC Balance (Cleaning) Control

10 to 90%. Control etching and amount of AC positive input while welding aluminum. Less AC positive input means the weld will have less side etching and more penetration.

AC/DC Selection

Select AC to weld Aluminum and Magnesium in TIG mode. Select DC for all other weldable metals.

2T/4T or Pedal Operation

TIG Start Type or Stick Welding Selector

Welding Thickness Limits*:

*Welding thickness limits are typically described in single pass and multi-pass terms. Multiple pass welds on thicknesses 1/4" and over are typically prescribed as "best practice" welds, whereas a single pass weld, may not yield the best or strongest weld but is used to give a comparative idea of the machines capability. For maximum welding limits, you have to take into consideration the ultimate size of the weldment. Larger weldments will require more welding amperage to make the same weld as a smaller weldment because of heat dissipation capability.

Maximum Single Pass DC TIG Weld: 120V: 3/16", 240V: 5/16"

Maximum Multi-Pass DC TIG Weld: 120V: 3/8", 240V: 1/2"

Maximum Single Pass AC TIG Weld: 120V: 1/8", 240V: 1/4"

Maximum Multi-Pass AC TIG Weld: 120V: 3/16", 240V: 5/16"

Minimum Weld Thickness All Voltages: DC: .07", AC: .020"

Stick Weld Maximum Electrode Diameter: 120V: 3/32", 240V: 1/8"

NOTE: This Unit is not rated for use with E6010 Stick Electrodes.)

Standard Equipment and Options

Standard Equipment:

- 12 ft (4m) 26 Series Air-Cooled Rigid neck (Straight Head) TIG Torch
- 200A Work Clamp and 10 ft (3m) Cable
- Brass Billet Floating Ball Type Argon Regulator
- Plasma Cutter Air Regulator/Water Trap
- 240V to 120V Pigtail Power Adapter
- Starter Consumable Kit (No Tungsten)



Customer Favorite Options:

- Stick Electrode Holder with cable: SKU# HOLDER-240MD10D25
- NOVA Amp Control Slider for TIG Torch: SKU# NVA-AMP-SLDR-TIG-15
- PowerCart 250: SKU# PC250-M
- NOVA Rotaflex Air-Cooled 26 Torch, 12.5 ft. : SKU# NOVA-RF-26-25QD

Can this unit operate on a generator?

The small size and portability of the PowerTIG 185 makes it a perfect candidate for use with a generator. We want you to get the best life and performance out of the unit while operating on a generator, so please follow these guidelines when choosing this welder and using your generator to match.

- The generator must be rated as "Clean Power Output", This means that it provides 5% or less Total Harmonic Distortion. The generator manufacturer determines this rating. Consult with them before your purchase.
- The generator must provide at least 7500 Surge Watts. Switch the welder off before powering down the generator. Do not run the generator out of fuel while the welder is switched on.
- Failure to do follow these recommendations may void the welder warranty.

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