

EVERLAST

WELDING AND CUTTING SYSTEMS

Lightning 275 MTS

MIG / AC-DC TIG / DC Stick Multi-Process Inverter Welder



Built For Work.

The Lightning 275 MTS delivers professional multi-process welding in a single, compact package. With AC/DC TIG pulse, MIG, and Stick capabilities up to 275 amps, this machine handles everything from thin aluminum to heavy steel. Featuring a 5-inch HD color LCD, PowerSet technology, and a cast aluminum 4-roller drive system, the Lightning 275 MTS is built for shops that demand precision and versatility.

275A Max Output

60% Duty Cycle

5" HD Color LCD

120/240V Dual Voltage

True Multi-Process Design

MIG / Flux Cored

30-275A

This unit can weld with solid wire, gas shielded flux-cored wire, or self-shielding flux-cored wire, as well as stainless and aluminum wires.



DC Stick

10-275A

Arc force control, hot start and VRD round out the list of stick features. E6010/Cellulose capability for downhill has been added.



AC Wave Form Control

Advanced Square, Soft Square, Triangle, and Sine wave forms give full control over the AC TIG arc characteristics for precise aluminum welding results.



Push-Pull and Spool-GunCapable

Add to the versatility of this unit by adding an optional push-pull gun. The unit works with our Parker SGP 360A or North MPG 300 guns. For smaller jobs, select the Parker DSP 360A spool gun.



AC/DC TIG With Pulse

10-275A DC and 15-275A AC

Provides professional results on thick or thin gauges of metal. This is enough power to weld up to 3/8" Aluminum or 1/2" Steel.



AC Advanced Pulse TIG Operation

Fully adjustable AC Advanced Pulse alternates between AC and DC while pulsing to provide more heat to the weld. This feature allows the unit to perform more like a 375A welder on Aluminum.



Programmable Memory

Save up to 30 programs which can be locked to prevent unwanted tampering or accidental erasure. Each program can be individually named.



5 Year Warranty

Full parts and labor coverage. The best in the Industry coverage also includes free North American tech support for the supported life of the unit.



FEATURES

● 5.0" HD Color LCD Display and Simple Controls

Full color screen with real-time parameter display and intuitive menu navigation. The high contrast colors and the sharp display, allow for easy viewing, even in sunlight. The parameters are all displayed on one screen. There's no hidden menus or bottlenecks.

● Digital IGBT Inverter

The efficient power output of the Inverter design provides consistent arc performance across all processes and minimizes operation costs. It also reduces the foot print of the welder, while keeping weight concerns down to a minimum.

● Cast Aluminum 4-Roller Drive

Smooth, consistent wire feeding is delivered by the 4 roller drive system. The system is designed to work with push-pull guns or it can even be used with U groove drive rolls by themselves to push Aluminum wire without the use of a push-pull gun. All you need is one of our polymer gun liners to do the job.

● Easy Polarity Change

When changing processes, the DINSE Type connectors allow a quick swap of polarity. In TIG, there is no need to swap polarity between DC and AC changeover. Just leave the torch where it is. The machine will do the rest.

● PowerSet Technology

Automatic voltage and wire speed calculation is based on material thickness, wire diameter and other user inputs. This reduces the amount of effort and skill needed to set all the parameters that the machine offers. However, full manual mode is available for the professionals that really need maximum adjustability.

● Tool-Free Euro Quick Connect for MIG

Fast torch changes without tools for minimal downtime. The universal connector design means that almost all torch makers make Euro-back end connectors for easy changeover to your favorite torch brand. However, we think our North brand torches are up there with the best.

● AC/DC TIG and Stick Functions

Beyond MIG, the function of AC/DC TIG adds considerable versatility to the unit. The TIG function can be used to weld almost any metal, including stainless and aluminum with both DC and AC output. Stick functionality completes the package with a smooth, stable DC arc.

● Push-Pull and Spool Gun Ready

Direct connection for aluminum MIG welding allows the user to have more options for welding aluminum. Choose between a conventional grip or pistol grip gun styles. Spool gun and Push-Pulled guns are often preferred for production welding due to their speed and convenience..

SPECIFICATIONS

Processes	GMAW/FCAW/GTAW-P/STAW	Wire Spool Size	12" and 8"
TIG Type	AC-DC TIG with Pulse	MIG Gun Type	36 Series 3m (Set up for Spray Arc, .045" wire)
MIG Pulse	No MIG Pulse	Digital Display	5.0" HD TFT Color LCD
Voltage Input	120/240V, 1 Phase, 50/60Hz	Weight	92 lbs.
MIG Output (120)240V	30-(150A)275A; 15.5-(21.5V)27.8V	Dimensions	25"H x 12"W x 27.5"L
DC TIG Output (120)240V	10-(150A)275A; 10.4-(16V)21V	Max Wire Speed (120) 240V	(400)600 IPM
AC TIG Output (120)240V	15-(150A)225A; 10.6-(16V)21V	PowerSet Mode	Yes
Stick Output (120)240V	10-(120A)220A; 20.4-(24.8V)28.8V	TIG Start	HV, Lift Start, Live Lift Start
I1Max (Inrush Amps)	120/240V: 43A/48A	AC Wave Forms	Adv. Sq./Soft Sq./Trian./Sine
I1Eff (Rated Input Amps)	120/240V: 34A/38A	TIG Pulse	0-250 Hz
Duty Cycle	60% @ Max. Output Each Process on 240V	E 6010/Cellulose	Yes, downhill, or closed root
OCV	80V	Stick VRD	Yes
Drive Roll Size	.035-.045" (.023-.030" possible with gun liner change)	Remote Control	Foot Pedal, 2T, 4T

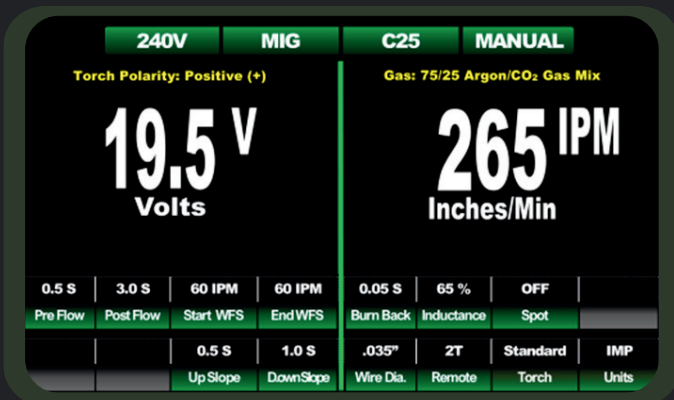
STANDARD EQUIPMENT

- 10 Ft. 320A 36 Series MIG Gun
- 18 Series Water-Cooled TIG Torch
- 10 Ft. Cable and 300A Work Clamp
- 10 Ft. Cable and 300A Electrode Holder
- NOVA Corded 25 Ft. Foot Pedal
- Consumable Starter Kits (No Wire or Tungsten Included)
- 8" Spool Adapter
- Power Adapter for 120V operation
- Argon Regulator, Floating Ball Type

RECOMMENDED OPTIONAL EQUIPMENT

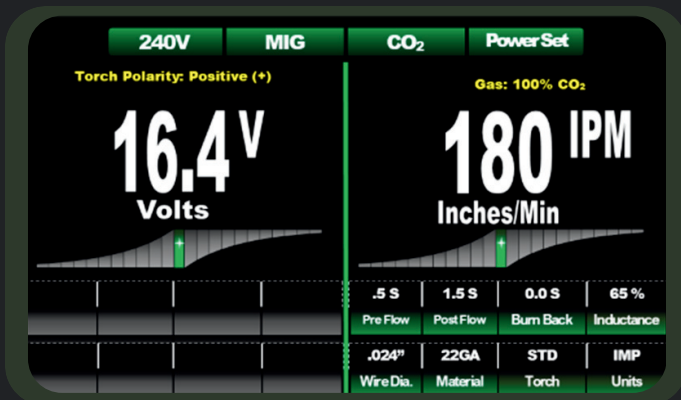
- 25 Ft. Parker DSP 360A Spool Gun
- 25 Ft. Parker SGP 360A or North MPG 300 Push-Pull Gun
- Drive Rolls and Liners (.023/.030, .035/.045 V, U groove or Flux)
- NOVA Wireless Foot Pedal
- Power Cool W300 Water Cooler
- 10 or 15 Ft. 24 series MIG Gun (Best choice for under 230A use)
- 15 or 25 Ft. 20 series TIG Torch
- PowerCool 401 Water-Cooler
- PowerCart 301

MANUAL AND POWER SET FUNCTIONS



Manual Mode Screen

1. Information Bar.
2. Wire Speed Display. This doubles as Amp Meter When Welding.
3. Voltage Display. The Display Changes to Reflect Selected Parameter.
4. Spot/Stitch Timer.
5. Pre/Post Flow and Up and Down Slope Timers.
6. Burn Back Control Timer.
7. Inductance Adjustment.
8. Remote Operation Select.
9. Color Coded Display (Green/Yellow/Red).
10. Memory Save/Recall up to 30 programs.
11. Unit of Measure Selections.



PowerSet Mode Screen

1. Wire Size Selection Input.
2. Material Thickness Input.
3. Volt and Wire Speed Settings are automatically calculated.
4. Other parameters that are not present are set at optimized settings.
5. Color-Coded Graphic "Slide" Indicators help you see the best settings.
6. Just the right amount of functions still leaves you in control.
7. Simplified Menu Navigation reduces new operator learning time.

Other features are similar to manual mode.

GENERATOR OPERATION

Can this unit be operated on a generator? Sure.

Just keep this information in mind:

- Generator must provide clean power output (less than 5% THD).
- Minimum 13,000 surge watts required.
- Use proper shutdown procedures. Do not turn off the generator with the welder plugged in or powered up.
- Failure to follow guidelines may void warranty.
- Inverter-type generators are recommended for best results but are not required if the 5% or less standard is met.
- Only use the unit when the idle is at full throttle and, if applicable, the power is 100% available to the welder.

Specifications and kit contents are subject to change without notice. Call 877-755-9353 to verify. For that reason, Everlast is not liable for discrepancies between actual product, kit contents, or accessories if they differ from the descriptions and pictures depicted here. The 5-year parts and labor warranty covers the power source only (US only). Canada and other countries have different warranty terms - contact your distributor. Accessories and NOVA products are covered under a separate warranty. Consumables are not warranted except against defect. Everlast disclaims any implied warranty or suitability for a specific application. The customer is solely responsible for safe and proper use of this product.

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