EVERLAST
IGBT INVERTER TECHNOLOGY

Lightning 275 MTS
MULTI-PROCESS

Specifications

Process:	GMAW/F-CAW/GTAW-P/SMAW* AC-DC TIG with Pulse (No MIG Pulse)	**Input:**	120/240V 1 Phase 50/60Hz	**Output Range (120)240V:**	MIG: 30-(150A)275A;15.5-(21.5V)27.8V DC TIG: 10-(150A)275A;10.4-(16V)21V AC TIG: 15-(150A)225A;10.6-(16V)21V Stick: 10-(120A)220A; 20.4-(24.8V)28.8V	**I1Max (Inrush) 120/240V:**	43A/48A	**I1Eff (Rated) 240V:**	34A/38A
Duty Cycle:	60% @ Max. Output Each Process	**OCV:**	80V	**Drive Roll Size:**	.035-.045" (.023-.030" opt. gun/liner req.)	**Wire Spool Size:**	12" and 8"	**MIG Gun Type:**	36 Series 3m.
Digital Display:	Color LCD 5.0" HD TFT	**Weight:**	92 lbs.	**Dimensions:**	25" H X 12" W X 27.5" L	**Max. Wire Speed:**	600 IPM	**PowerSet Mode:**	Yes
TIG Start:Type	HV (solid start HF type), Lift Start with Remote, Live Lift Start	**AC Wave Form:**	Adv. Sq./Soft Sq./Trian./Sine	**TIG Pulse Type:**	Fully adjustable, with 0-500 Hz capability w/ 3 DC Pulse Wave Forms and AC Adv. Pulse	**E 6010/Cellulose:**	Yes, with setting.	**Stick VRD:**	Yes

Meet the new shop favorite.

Digital IGBT Inverter Power Output
The unit not only has MIG, it also has AC/DC TIG and DC Stick output. The advanced IGBT inverter design allows the unit to be built with multiple processes to "no compromise" standards without sacrificing quality of performance in any one process.

Large Digital Color Display
The large display 5" makes the main settings stand out at a distance so you can always see them at a glance from a distance. Color coding and graphics help you quickly identify and set parameters. New control layout design is not only sharp and clear, it is also easy to navigate.

Remote Function
The unit supports the use of the included foot pedal or torch switch to control the weld functions and Amperage. Includes Push-Pull and Spool Gun capability.

Spool Gun and Push-Pull Gun Ready
If you need it, the unit is ready to weld with the optional Parker Spool Gun, Parker pistol style push-pull, or the Everlast In-line Premium Push-Pull systems for distance feeding of aluminum wire.

Easy Change of Polarity
Need to quickly change over for Flux-Cored wire, or back to solid wire? Need to change over to TIG from Stick? No problem. The new version has eliminated the separate AC port to help eliminate operator error and confusion.



120/240V Operation
This unit operates on 120/240V 1 phase power. It is equipped with a NEMA 6-50 240V plug and 6.5ft cord. 120V adapter is included. Unit automatically senses the voltage change.

MIG and TIG Gas and Cooler Power Connections
At the back, the unit is equipped with two separate gas connections for independent MIG and TIG operations. No swapping of gas or regulators is required. A Water cooler power connection is also supplied for Everlast 240V coolers.

AC and DC TIG Pulse Functions
The unit features a TIG pulse feature that is fully adjustable in standard mode in both AC and DC output. This capability is unique to this type of unit. Pulse also operates in PowerSet mode/

PowerSet Function
No need to rely on complicated charts and menus to set up your machine. Simply select the desired process, and make basic inputs of wire/electrode size, and metal thickness and the unit adjusts to a useable setting automatically.

Cast Aluminum/Steel 4 Roller Wire Drive
The unit comes with .035" and .045" drive rolls. However, additional drive rolls may be purchased to feed .023-.045" wire. Additional gun liners and/or guns are required for best performance.

Tool-Free Euro Quick Connect
The best design used for connecting up your MIG gun period. No tools needed! Quickly and easily change the MIG gun with a lower chance of misalignment and leaking of mig gas. This Euro style has been around for 40 years and has proven itself to be one of the most popular designs in both North America and the world.

5 YEAR WARRANTY

5 Year Parts and Labor Warranty
The best warranty in the business just got better. Who else offers this without paying extra, or giving you a long list of exclusions?

Uses: Fabrication, Home Hobby, Automotive, Motor Sports and Portable Repair

There Are No Equals...

Features that are on point.
In the newest generation of the Lightning 275 MTS, the design goals have not changed. Our requirement with the Lightning series has always been to provide the best performing, most versatile welder on the market, and do so while maintaining a reasonable price point. According to our customers, that is exactly what we have achieved with the Lightning 275 MTS. We've not only done that by improving operation, we've done that by adding many new features without adding a lot of dollar signs to the bottom line price. No other mainline competitor dares to comes close. Even with inflation on the rise over the past few years, we've resolved not to cut corners in manufacturing and continue to use name brand components and quality materials in our machines. This has helped create a reliable product that the industry has taken note of and tried to imitate, but hasn't quite yet managed to exceed the performance, features, and power of the Lightning series.

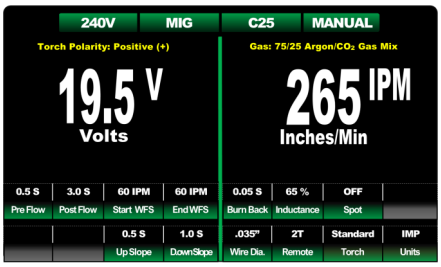
The newest generation offers improvements in the synergic Powerset mode with a new 3.0 Powerset mode which greatly reduces the input required by the operator to get a decent setting in all processes. There are simply more items managed by the machine automatically which are coupled with intuitive graphics and navigational controls to help guide the user to the best setting possible. Of course, if you desire, the machine still offers unparalleled user control over all processes with a full manual setting. The larger, higher resolution screen offers clear graphics with a one screen design. Hidden menus have been eliminated. All settings are visible at a glance. There's no need to scroll through menus to find out what a setting has been adjusted to. Easy navigation buttons make it quick and easy to get to what you want to adjust on the screen. Shielding gas and polarity reminders have been added to help remind users to configure the machine properly for best performance. A total of three pulse wave forms (Square, Sine and Triangular) for DC TIG pulse have also added a broader capability to the unit. Pulse frequency has also been increased to 500Hz for DC and 250Hz for AC. The range of adjustment on many functions have been improved for best operation as well. Automatic polarity selection has eliminated the need for the extra AC TIG port, which reduces operator error in setup and use. Also new to the Lightning series this year is the addition of Push-Pull gun capability for those needing serious distance MIG welding capability for Aluminum.

Due to the high 275A output and duty cycle of this welder, the unit comes with a water-cooled 18 series TIG torch. An optional cooler must be purchased for use with this torch, or an optional air-cooled torch can be purchased for under 200A and under use.

Everlast Power Equipment
380 Swift Ave. Unit 12
South San Francisco, CA 94080

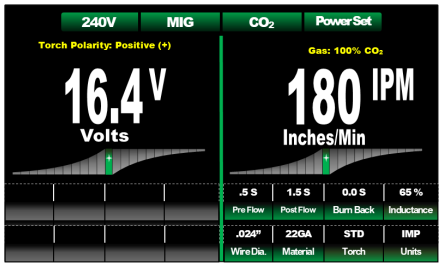
A bit closer up....

MIG Manual Mode



VS.

MIG Power Set Mode



Key Features:

1. The green information bar at the top provides status and process reminders.
2. Torch Polarity and Gas Reminders reduce error when switching processes.
3. Full list of adjustable features including Spot and Stitch Timers.
4. Adjustable Pre and Post Gas Flow improves weld quality.
5. Start/End WFS/A and slope combine to improve arc starts and crater fill.
6. Burn Back control helps prevent wire sticking in weld at stop.
7. Inductance tailors MIG arc characteristics and bead profile to user's needs
8. Select Imperial or Metric units for measurements and wire feed speed.
9. Remote operation selection changes torch trigger operation.
10. Numbers turn yellow to warn that the wire is crossing best short circuit settings and is crossing into spray arc and globular transfer range.
11. Unused settings are grayed-out when not applicable to the particular configuration of the welder. This helps eliminate confusion during setup.

Key Features:

1. Input wire dimensions and material thickness after selecting process and the welder will automatically choose useable settings.
2. The programming automatically limits maximum thickness for different wire diameters and types.
3. All modes feature PowerSet, tailored to the individual process.
4. Unique graphic symbols change colors from green to yellow to red when adjustments reach a critical range that may result in undesirable operation.
5. Range of adjustment is generous for fine tuning, but does offer limits to help prevent non-workable settings by the operator.
6. Many settings are automatically eliminated from the menu and are automatically controlled to make setup easier.
7. PowerSet mode programming can also be saved into memory as can manual mode programs.



Intuitive Operator Interface



30 Saveable and Lockable Programs



8" (10-12 lbs) and 12" (30- 44lbs) Spools



Dual Gas Inlets in Rear With Cooler Power Connection

Standard Equipment and Recommended Options



Standard Equipment:

- 10 ft (3m) 36 Series MIG Gun
- 250A Work Clamp and 10 ft (3m) Cable
- 18 Series Water-Cooled TIG torch
- 250A Stick Electrode Holder and 10ft (3m) Cable
- Brass Billet Floating Ball Type Argon Regulator
- Foot Pedal
- Starter Consumable Kit for MIG and TIG
- 12" to 8" Spool Adapter.
- 240V to 120V Power Adapter

Recommended Options:

- 25 ft. Parker DSP 360A Spool Gun, #EV-DSP360A-24-P10-80ER
- 25 ft. Everlast MPG 300A Push-Pull Gun, #EV-MPG300A-25
- 10 ft. 24 Series MIG Gun (For ≤.035"Wires order blue liner) #EV-MG24-3M
- 10 ft. Blue liner for .035 and under steel/stainless wires. #EV-GMO-500-BSL-10
- .023/.030" V Groove Drive Roll, #EV-DR-VG-0608-1
- .030/.040" V Groove Drive Roll, #EV-DR-VG-0810-1
- .023-.035" Blue Steel Liner (recommended), #EV-GM0500-BSL-10
- Power Cool Water-Cooler

Can this unit be operated on a generator?

The multi-process design of the Lightning 275 makes it a great choice for portable welding. 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 13,000 Surge Watts.
- Switch the welder off before powering down the generator. Do not run the generator out of fuel (or swap fuels) while the welder is switched on.
- Failure to follow these recommendations may void the welder warranty.

Everlast makes every effort to ensure accuracy of stated specifications and kit contents at time of publication. However, due to continual our efforts to improve our products and offerings, stated specifications, accessory kit content or product appearance may change without notice. Any change in specification, kit contents, appearance, length, etc. can be verified by calling toll-free @ 877-755-9353. *In the event of these changes, Everlast will not be liable to provide product, kit contents, or accessories exactly as depicted or described in this publication.* Please review warranty details @ https://www.everlastgenerators.com/standard-warranty. The 5 year parts and labor warranty covers only the power source and does not cover accessories or consumables. While this publication may be used in multiple distribution markets, the 5 year warranty only applies to US products only. Canada and other countries maintain different warranty periods and policies. Consult directly with your country's distributor about your warranty details. Accessories, including all NOVA products are covered under a separate warranty. Consumables and consumable kits are not warrantied except against manufacturer defect. Since Everlast cannot know every situation and detail of customer's application, any statement of other warranty, expressed or implied, or statement concerning suitability of this product for a specific customer use or application is specifically disclaimed. The customer is responsible for ensuring safe and practical operation of the unit and is solely responsible for the proper use and application of this product and accessories.