










PowerTIG 315LX, 325EXT and 350EXT Industry Comparison*

Smashing the 300 Amp Barrier.

The line of PowerTIGs have been around since 2009. Slowly but surely we've been adding to our 300+ amp lineup of AC/DC TIG welders. To date that number stands at Three. That is: three very affordable welders that feature loads of performance oriented features. We've taken on the hard job of offering you a cross comparison here so that you can see all the features, and relevant performance specifications side by side. We've compared the most frequently compared products that our customers have often asked us about in comparison to these three PowerTIG models. If

you haven't figured out which welder you need, or can even afford, this will help you figure it out. We've not only compared similar powered welders, but also similarly priced units. If you are looking to see the fine details of how our units stack up against your favorite brand, this will help you also. Keep in mind that these specs are as detailed as we can make them based off other manufacturers provided information, and can change without notice based off of manufacturer's routine upgrading and changing of their product lines.

	 PowerTIG 315 LX	 PowerTIG 325EXT	 PowerTIG 350EXT	 Dynasty 280 907550	 Dynasty 280 DX 907551	 ET 301i W1009400	 Aspect 375 K3946-2	 Precision TIG 225 K2535-1	 Invertig 221 70221-12.5
Price	\$1999.00	2799.00	\$2999.00	\$5667.00	\$6126.00	\$5192.00	\$5298.00	\$2865.00	\$2495.00
Warranty	5 Year Parts and Labor	5 Year Parts and Labor	3 Year Parts and Labor	3 Year Parts and Labor	3 Years Parts and Labor	3 Year Parts and Labor	3 Year Parts and Labor	3 Year Parts and Labor	3 Year Parts and Labor
TIG Kit Included	Yes	Yes	Optional	Optional	Optional	Optional	Optional	Optional	Yes/ Air Cooled Std.
Inverter or Transformer	Inverter	Inverter	Inverter	Inverter	Inverter	Inverter	Inverter	Transformer	Inverter
Type of Input Power	1 Phase	1 and 3 Phase	1 Phase	1 and 3 Phase	1 and 3 Phase	1 and 3 Phase	1 and 3 Phase	1 Phase	1 Phase
Input Voltage	208-240V	208-240V (480V Opt.)	208-240V	208-575V	208-575V	208-480V	200-600V	208-240V	208-240V
DINSE Size or Type Connector Compatibility	35/50	35/50	35/50	35/50	35/50	35/50	35/50	35/50	35/50
Inrush (I1max) Amps @ 240V 1 Phase	53A	45A	47A	52.8A	52.8A	33.7A	19.6A	na / 84A / na	na / 44A / na
Rated (I1eff) Amps @ 240V 1 Phase	31A	35A	39 A	NA	NA	21A	NA	na / na	na / na
Weight	112 lbs.	62 lbs.	100 lbs.	52 lbs.	52 lbs.	36 lbs.	105 lbs	192 lbs.	48 lbs.
Dimensions	11"Wx20"Hx26"L	9.25"Wx17.5"Hx24"L	11Wx20"Wx26"L	8.6"Wx13.6"Hx22.5"L	8.6"Wx13.6"Hx22.5"L	7.25"Wx13"Hx19"L	11.8"Wx21Hx25.5"L	14.5"Wx 20.7"Hx25.6"L	7.5"Wx15.75"Hx19.75"L
OCV	70V	70V	80V	60V	60V	113V	62 (13.5V)	75V	65V
TIG Auto Setting Feature	No	No	Yes	Yes	Yes	No	Auto Balance		
TIG Duty Cycle at Maximum Amp Rating (1 Ph)	60% @ 315A	35% @ 325A	35% @ 350A	25% @ 280A	25% @ 280A	60% @ 200A	25% @ 200A	10% @ 225A	20% @ 220A
TIG Duty Cycle at Maximum Amp Rating 3 phase (240V)	NA	35% @ 325A	NA	25% @ 280A	25% @ 280A	30% @ 300A	30% @ 350A	na	na
Stick Duty Cycle at Maximum Amp Rating 1 phase (240V)	35% @ 250A	35% @ 225A	35% @ 270A	10% @ 280A	10% @ 280A	100% @ 150A	20% @ 17	15% @ 225	No info Available
Stick Duty Cycle at Maximum Amp Rating 3 phase (240V)	NA	35% @ 225A	35% @ 270A	15% @ 280A	15% @ 280A	60% @ 200A		na	na
Minimum TIG Amps DC / AC	10A / 20A	5A / 10A	5A / 10A	1A / 2A	1A / 2A	5A / 5A	2A / 2A	5A / 5A	4A / 4A
Maximum TIG Amps	315A	325A	350A	280A	280A	200A 1 ph/ 300A 3 ph	250A 1 ph/ 375A 3 ph	na / 230A	na / 220A
Maximum Stick Amps	250A	225A	270A	280A	280A	150A 1 ph / 200A 3 ph	250A 1 ph / 350A 3 ph	230A	na/ 200A
TIG AC and DC	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
TIG AC Wave Form	Adv. Square	Adv. Square/Soft Square/ Sine/Triangular	Adv. Square/Soft Square/ Sine/Triangular	Soft Square	Adv. Square/ Soft Square, Sine, Triangular	Square	Square, Soft Square, Sine, Triangular	Soft Square (Transformer Type)	Square
TIG AC Frequency Control	Yes, 20-500Hz	Yes, 20-250Hz	Yes, 20-250Hz	Yes, 70-150 Hz	Yes, 20-400Hz	30-200 Hz	Yes 40-400Hz	No, Fixed 60Hz	20-200 Hz
TIG AC Balance	10-90% EP	5-90% EP	5-90% EN	60-80% EN	50-99% EN	10-90% EP	Yes, 35-99% EN	40-80% EN	10-90% EN
Independent AC Amplitude Adjustment (EP vs EN Amps)	No	No	No	No	No	No	Yes	No	Yes
TIG Pulse	Yes	Yes	Yes	Yes	Yes	Yes	Yes	No	Yes
Advanced AC (Mixed) Pulse	No	Yes	Yes	No	No	No	No	No	No
TIG Pulse Frequency (Pulses Per Second) AC / DC	2-750Hz/ 2-750Hz	0-250Hz / 0-500Hz	0-250Hz / 0-500Hz	0-50Hz/ 0- 50Hz	0-500Hz/ 0-500Hz	0-2000 Hz / 0-2000 Hz	1-25% of AC Freq/ 0-2000Hz	No	.1-999 Hz
TIG Pulse Amp Range (Base Amps %)	5-95%	5-99%	5-99%	Fixed	5-95%	1-200% of Weld Amps	10-90%	NA	10-90%
TIG Pulse Time On Balance %	10-90%	3-100%	3-100%	Fixed	5-95%	1-99%	5-95%	NA	10-90%
TIG 2T/4T Sequencer	Yes	Yes	Yes	Yes	Yes	Yes	Yes,	No	Yes
TIG Pre Flow / Post Flow Time	0-10 / 0-30 Seconds	0-25 / 0-50 Seconds	0-25/0- 50 Seconds	Auto/0-50 Seconds	0-25 Seconds / 0- 50 Seconds	.1-10 Seconds / 20-500%	0-25 Seconds / 0-60 Seconds	No / 1-30 Seconds	.1-2 / .1-30 Seconds
TIG Start Amps / End Amps DC (AC)	Fixed	5 (10)-325A	5 (10)-350A	Fixed	1(2)-280A	5-200%/5-200% of Set Amps	2-250/375/A	NA / NA	10-90% / 10-90%
TIG Upslope / Downslope Time	0-15 / 0-30 Seconds	0-25 / 0-25 Seconds	0-25 / 025 Seconds	No	0-50 / 0- 50 Seconds	0-99% / 0-99%	0-5 Seconds / 0-25 Seconds	NA / NA	.1-2 / .1-2 Seconds
TIG Spot Weld Timer	No	No	Yes	No	Yes	Yes	No	No	Yes
Stick E 6010/ Cellulose Setting or Capability	No	No	Yes	Yes	Yes	Yes	Yes	Yes	No
Stick VRD (Voltage Reduction Device)	No	Yes	Yes	Yes	Yes	Yes	Yes	No	No
Stick Arc Force/Dig	0-100% of Available Amps	0-100% of Available Amps	0-100% of Available Amps	0-100%	No	0-200% of Set Amps	0-100%	No	No
Stick Hot Start Intensity	No	0-100% over set Amps	0-100% over set Amps	Yes	No	5- 200% of Set Amps	0-100%	No	No
Stick Hot Start Time	No	0-2 Seconds	0-2 Seconds	No	No	0-20 Seconds	No	No	No
Programmable Memory	No	Yes	Yes	No	Yes	Yes	Yes	No	Yes
Power Cable Length	6.5 Ft.	6.5 Ft.	6.5 Ft.	8 Ft.	8 ft.	No Info Available	No Info Available	9 ft.	No Info Available

*This publication is based on available information on September 12, 2019. It relies on other manufacturer data which is subject to change and may vary in accuracy. Prices are also subject to change .