



# Comparison Guide\*

## PowerTIG 400EXT / Typhoon 500



If power is what you need, Everlast delivers. The PowerTIG 400EXT and the Typhoon 500 are two welders with more than enough power to handle the most demanding chores in industrial welding shops. These units have the build quality and strength to hammer it out day in and day out for years to come. Both are protected by Everlast's Industry leading 5 year warranty.

The 400EXT is a top performer, when compared to many members in its class. You'll find plenty of duty cycle and reasonable feature list that gives most shops every important tool they will need to tackle any job. As you can see below the PowerTIG 400EXT stacks up very well on price and features when compared to the other welders. The EXT units made their mark by providing wave form control in AC, excellent ranges of adjustment, program saving ability and general ease of setup. When you add to that the incredible penetrating ability of the Advanced AC pulse and the wide range of control over both forms of pulse, it stands out against all competitors with both value and performance driven features.

The Typhoon 500 is the strongest member in it's class, with up to 500A @ 60% duty cycle on three phase 480V input power and 400A @ 60% duty cycle on 1 phase 240V input power. With new features such as the PowerSet Mode, a Fast Tack feature, tungsten size selection, independent amplitude, AC wave form control (5 different ones), AC split wave form control, fan and cooler control technology, HD LCD screen, DC Pulse wave shaping and the adjustable HV starting, the Typhoon can go head-to-head with both features and power against even the most expensive models on the market.

Of course, one more important feature is that the Typhoon 500 is offered as a complete package with both cart and cooler, so there are no add-ons needed to get started welding. Take that in consideration against "Unit" only prices.

Check the information below for a side by side comparison of these units to their competitors. We think you'll see the difference, not only in features but also in the price and the warranty.

SPECIFICATIONS	PowerTIG 400 EXT \$3699.00	Typhoon 500 \$6999.00	Synowave 400 \$10,594.00	Dynasty 400 \$12,433.00	HTP 400 AC/DC \$12,008.00	Aspect 375 AC/DC \$9661.00	Fronius i-Wave 400 \$17583.00
WARRANTY	5 Years Parts/Labor 3 Year Shipping	5 Years Parts/Labor 3 Year Shipping	3 Years Parts/Labor	3 Years Parts/Labor	3 Years Parts/Labor	3 Years Parts/Labor	3 Years Parts/Labor
DESIGN TYPE	AC/DC IGBT Digital Inverter	AC/DC IGBT Digital Inverter	AC/DC IGBT Digital Inverter	AC/DC IGBT Digital Inverter	AC/DC IGBT Digital Inverter	AC/DC IGBT Digital Inverter	AC/DC IGBT Digital Inverter
INPUT VOLTAGE (NOMINAL)	240V 1/3 Ph (460/480V 3 Phase opt.)	240V 1 Ph 480V 3 Ph	208-480V 1/3 Phase	208-575V 1/3 Phase	208-240V 1 Phase 200-575V 3 Phase	208-240V 1 Phase 208-575V 3 Phase	208-575V 3 Phase
TIG OUTPUT	DC 5-400A/AC 10-400A	240V 1 Phase: DC 5-400A/AC 10-400A 480V 3 Phase: DC 5-500A/AC 10-500A	AC/DC 5-400A	AC/DC 3-400A	240V 1 Phase AC/DC 4-350A 200-575V 3 Phase AC/DC 4-400A	240V 1 Phase AC/DC 2-250A 208-575V 3 Phase AC/DC 2-375A	AC/DC 3-400A
STICK OUTPUT	20-315A DC	240V 1 Phase: 20-315A AC/DC 480V 3 Phase 20-400A AC/DC	5-300A DC	3-400A AC/DC	240V 1 Phase: 4-260A 200-575V 3 Phase: 4-300A	240V 1 Phase 20-250A 208-575V 3 Phase 20-250A	AC/DC 3-400A
TIG DUTY CYCLE @ RATED AMPS	35% @ 400A	240V 1 Phase: 60% @ 400A 480V 3 Phase: 60% @ 500A	30% @ 400A	1 Phase: 60% @ 200A 3 Phase: 60% @ 300A	240V 1 Phase: 35% @ 350A 3 Phase: 30% @ 400A	30% @ 250A 1 phase 30% @ 350A 3 Phase	40% @ 400A
STICK DUTY CYCLE @ RATED AMPS	35% @ 250A	240V 1 Phase: 60% @ 315A 480V 3 Phase: 60% @ 400A	30% @ 300A	1 Phase: 60% @ 200A 3 Phase: 60% @ 300A	240V 1 Phase: 35% @ 260A 230/480/575V 3 Phase: 30% @ 400A	30% @ 250A 1 Phase 30% @ 350A 3 Phase	40% @ 400A
REMOTE SWITCH CONTROL	Yes	Yes	Yes	Yes	Yes	Yes	Yes
OCV/ VOLTAGE REDUCTION OCV	60V <24V VRD	95V <24V VRD	70V <15V VRD	75V	68V	108V	96V (<10 VRD)
INRUSH (I <sub>1max</sub> ) AMPS	240V 1 Phase: 87A 240V 3 Phase: 50A Optional 480V 3 Phase: 23.1A	240V 1 Phase: 63A 480V 3 Phase: 24A	240V 1 Phase: 65A 480V 1 Phase: 31A 240V 3 Phase: 36A 480V 3 Phase: 17A	240V 1 Phase: 60A 480V 1 Phase: 28A 575V 1 Phase: 22A 240V 3 Phase: 36A 480V 3 Phase: 24A 575V 3 Phase: 19A	240V 1 Phase: 50A 240/480/575V 3 Phase: 36/17.6/16.8A	240V 1 Phase: 47A 240V 3 Phase: 42A 460V 3 Phase: 24A 575V 3 Phase: 16A	240V 3 Phase: 41.7A 460V 3 Phase: 21.7A 575V 3 Phase: 20.8A
RATED (I <sub>1eff</sub> ) AMPS	240V 1 Phase: 52A 240V 3 Phase: 30A Optional 480V 3 Phase: 14A	240V 1 Phase: 50A 480V 3 Phase: 19A	240V 1 Phase: 36A 480V 1 Phase: 17A 240V 3 Phase: 20A 480V 3 Phase: 10A	240V 1 Phase: 49A 480V 1 Phase: 28A 575V 1 Phase: 22A 240V 3 Phase: 36A 480V 3 Phase: 24A 575V 3 Phase: 19A	240V 1 Phase: 29.6A 240/480/575V 3 Phase: 22.9/11.6/11.0A	240V 1 Phase: 31A 240V 3 Phase: 27A 460V 3 Phase: 13A 575V 3 Phase: 10A	240V 3 Phase: 30.7A 460V 3 Phase: 16.1A 575V 3 Phase: 15.7A
COLOR LCD DISPLAY AND TYPE	No	5.1" 720HD	No	No	Yes	No	Yes/Touch
HF START /LIFT START	HV/Lift w/Remote	HV/ Lift w/Remote/Live Lift	HF/Live Lift/Lift w/Remote	HF/Live Lift/Lift w/Remote	HF/Lift w/Remote	HF/Live Lift/Lift w/Remote	HF/Live Lift/Lift w/Remote
HF START TYPE	Solid State HV	Adjustable Solid State HV	Solid State	Adjustable Solid State	Solid State	Adjustable Solid State	Yes
SELECTABLE START POLARITY	No	Yes	No	Yes	No	Yes	Yes
AC WAVE FORM	Adv. Square/Soft Square/ Triangle/Sine (4)	Adv. Square/Soft Square/ Trapezoid/ Triangle/ Sine (5)	Square (1)	Square/Soft Square/ Triangle/ Sine (4)	Square, Soft Square/ Triangle (3)	Square/Soft Square/ Triangle/ Sine (4)	Square/Soft Square/ Triangle/ Sine (4)
AC INDEPENDENT AMPLITUDE (EN vs. EP AMPS)	No	Yes	No	Yes	Yes	Yes	Yes
AC INDEPENDENT HALF-WAVE SHAPE CONTROL	No	Adv. Square/Soft Square/ Trapezoid/ Triangle/ Sine(5)	No	Yes	Yes	No	Yes
AC FREQUENCY	20-250Hz	20-400Hz	50-150Hz	20-400Hz	20-400Hz up to 100A 20-200Hz over 100A	40-400Hz	40-250Hz
AC BALANCE	5-90% of EP (+)	5-70% of EP (+)	60-80% of EN (-)	50-99% of EN (-)	10-90% of EN (-)	35-99% of EN (-)	-70--70% from factory set
PRE FLOW	0-25 Seconds	0-30 Seconds	0-25 Seconds	0-25 Seconds	.1-5 Seconds.	0-25 Seconds	0-- 9.9 Seconds
POST FLOW	0-50 Seconds	0-60 Seconds	0 to 50 Seconds	0-50 Seconds	.1-99.9 Seconds	Auto/1-60 Seconds	0-60 Seconds
MINIMUM START AMPS	DC 5A/AC 10A	DC 5A/AC 10A	AC/DC 5A	DC 3A/AC 5A	AC/DC 4A	DC 2A / AC 2A	3A
MINIMUM END AMPS	DC 5A/AC 10A	DC 5A/AC 10A	AC/DC 5A	DC 3A/AC 5A	AC/DC 4A	DC 2A/ AC 2A	3A
UPSLOPE	0-25 Seconds	0-30 Seconds	None	0-25 Seconds	0-10 Seconds	0-5 Seconds	0-30 Seconds
DOWN SLOPE	0-25 Seconds	0-60 Seconds	None	0-50 Seconds	0-10 Seconds	0-25 Seconds	0-30 Seconds
AUTO RANGING PULSE	No	No	No	No	No	No	Yes
PULSED START CAPABILITY	No	No	No	No	No	No	Yes
DC PULSE WAVE FORM SHAPING	No	Yes	No	No	No	No	Yes
AC ADVANCED PULSE (MIXED AC /DC)	Yes	Yes	No	No	No	No	No
DC PULSE FREQUENCY	.1-500 Hz	.1-999.9 Hz	.1-150 Hz	.1-5000 Hz	.4-999.9 Hz	.1-2000 Hz	2-2000 Hz
AC PULSE FREQUENCY	Adv. Sq. .1-250Hz Others .1-10Hz	.1-400 Hz	None	.1-500 Hz	.4-20 Hz	.1-25% of AC Frequency	2-2000 Hz
AC ADVANCED PULSE FREQUENCY	.1-10 Hz	.1-10 Hz	None	None	None	None	None
PULSE TIME ON (BALANCE)	5-100%	5-100%	Fixed @ 40%	5-95%	10-90%	5-95%	10-90%
PULSE AMPS	5-100% of Welding Amps	3-100% of Welding Amps	Fixed @ 25%	5-95%	10-90%	10-90%	0-100%
SPOT WELD TIMER	Yes	Yes	No	Yes	Yes	Yes	Yes
DC FAST TACKING (COLD WELD FEATURE)	No	Yes	No	No	No	Yes	No
TUNGSTEN SIZE SELECTION	No	Yes	Yes	Yes	No	Yes	Yes
SYNERGIC PROGRAMMING	Yes, Basic	Yes, Advanced	Limited Pre-sets	Yes	No	No	Yes
STICK OPERATION AC/DC	DC Only	AC and DC	DC Only	AC and DC	AC and DC	DC Only	AC and DC
STICK E6010 CAPABLE (CELLULOSE)	Short Arc Only	Yes	Yes	Yes	Yes	Yes	Yes
STICK ARC FORCE CONTROL (DIG)	Yes	Yes	Yes	Yes	Yes	Yes	Yes
STICK HOT START INTENSITY	Yes, Adjustable	Yes, Adjustable	No	Low/High	Yes	Yes	Yes
STUCK ROD FUNCTION/ ANTI-STICK	No	Yes	No	Yes	No	No	Yes
STICK HOT START TIME	Yes	Yes	No	No	No	No	Yes
ADJUSTABLE AC STICK (FREQUENCY/BALANCE, ETC.)	NA	Frequency, Balance	NA	Frequency Only	Frequency/Balance	NA	Yes
STICK PULSE	No	No	No	No	Yes	No	No
STICK REMOTE CONTROL CAPABILITY	No	Yes	No	No	Yes	No	Yes
MEMORY	Yes	Yes	No	Yes	Yes	Yes	Yes
WPS LOCKOUT	No	Yes	No	Yes	No	No	Yes
FAN CONTROL	Yes	Yes	Yes	Yes	Yes	Yes	Yes
COOLER CONTROL	No	Yes	Yes	Yes	Yes	Yes	Yes
COOLER INCLUDED	Optional	Yes	Optional	Optional	Yes	Optional	Optional
USER UPDATEABLE INTERFACE	Not customer serviceable	Updateable but Not Customer Serviceable	Yes	Yes	No	Yes	Yes
FOOT PEDAL INCLUDED	Yes	Yes	No	No	Yes	No	No
WATER COOLER POWER RECEPTACLE INCORPORATED	Yes	Yes	Yes	Yes	Yes	Yes	Yes
WIRELESS PEDAL OUTLET	No	No	No	No	No	No	No
TIG TORCH INCLUDED	350A, Water-Cooled 18 Series 12.5 ft. 250A, Air-Cooled 26 Series 12.5 ft.	400A, Water-Cooled CK 18HD Series 12.5 ft. 400A Water-Cooled 26 Series 12.5 ft.	No	No	CK 18 Series Trimline 12.5 ft. 350A Water-Cooled 12.5 ft.	No	No
SIZE (NOMINAL)	26"Lx11"Wx17.5"H (Welder Only)	31"L x 11"W x28.3"H (Welder Only)	24"Lx15"Wx29.4"H (Welder Only)	22"Lx13.8"Wx24.8"H (Welder Only)	26.5"Lx 12.4"W X17.5"H (Welder Only)	25.5"Lx11.8"Wx 21"H (Welder Only)	27.8"Lx11.8"Wx29.1"H (Welder Only)
WEIGHT	89 lbs. Welder Only	220 lbs. with cart/cooler	131 Lbs.	134 lbs.	121 lbs. Welder Only	110 lbs. Welder only	148 lbs.

\*This publication is based on available information on March 31, 2024. It relies on other manufacturer data which is subject to change and may vary in accuracy. Prices are also subject to change.