

PowerPlasma 80S

PAC



More power when you need it.

Almost everyone at some point wishes they had more power, whether it is in the way of a car or a power tool. Power is nice to have, even if you don't think you are going to use it. Plasma cutting is no different. If you have a need in your shop or business for a plasma cutter, you likely are aware that prices quickly rise when you start looking for units that are capable of competently cutting heavy plate on a regular basis.

The PowerPlasma 80S has been designed to easily cut up to 1" on a regular basis. But one thing that is different from other plasma cutters in its class is the price. The PowerPlasma 80S sells for well less than other brands 40-50 amp cutters. No, don't expect this unit to cut corners just to reach that price point. It is built and designed using name brand electronic components for ultimate reliability and industrial-level performance. Features such as a CNC ready control connection and quick change torch connection allows rapid change between hand cutting and CNC cutting. The Tip saver feature limits the pilot arc-on time to ensure longer operating life of consumables and torch.

FEATURES THAT MAKE SENSE.

Features that have a purpose

- Reliable name-brand IGBT components offer excellent performance and serviceability.
- Adjustable Post flow helps user to optimize consumable life based on cutting parameters and use pattern.
- Blow Back design has
- Quick connect power connectors ensures fast removal of torch and work clamp for easy storage and transport.
- Analog input makes unit easy to setup.
- Torch-TIP saver function limits pilot arc time and helps reduce consumable wear. Also features continuously engaging pilot arc function if needed for cutting expanded metals.
- 2T/4T function can be used to "lock" trigger into on position. Excellent for long cuts or track cutting.
- Pilot arc fuse prevents unit damage should pilot arc fail to function correctly due to misuse.

Features that perform

- Bright Digital readout gives accurate and easy to see con-

trol of amps without guessing,

- Up to 1 7/16" Maximum Severance Cut.
- Up to 1 1/4" clean cut.
- Ideal for up to 1" daily use.
- Minimum practical cut: 24 gauge.
- Pierce up to 5/8".
- Final stage water trap/air filter included to augment the efficiency other installed inline filters. (Not designed to be used alone).
- 80 amp rated IPT 80 torch is an Italian design that is ready for Heavy Duty performance producing clean cuts and easy, comfortable operation for reduced fatigue.

Features that stand out

- 60% Duty Cycle at maximum amps for maximum cutting time. Works well with long cuts and constant use.
- Low air pressure/no air pressure cut out protection shuts off output when no air line is connected or pressure is too low to prevent damage to the torch and consumables.
- Needs air compressor rated at a minimum of 6.5-7 CFM @ 90PSI to support plasma.

POWER SPECIFICATIONS

PROCESS: Plasma (PAC)
INPUT: 240V 1 Phase, 50/60Hz
OUTPUT: 20-80A/88-112V
INSULATION GRADE: F
OCV: 240V

MAX INRUSH CURRENT: 58A
DUTY CYCLE: 60% @ 80A
PROTECTION CLASS: IP21S
START TYPE: Blow-Back (Non HF)
MAX SEVERANCE: 1 7/16"

DIMENSIONS: 9.5Wx22"Lx18"H
WEIGHT: 55 lbs., unit only
INVERTER TYPE: IGBT
TORCH TYPE: IPT 80 torch
RECOMMENDED DAILY USE: 1"



1-877-755-9353

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everlastwelders.com

PowerPlasma 80S

PAC

IPT 80
4MHD Work Clamp Cable
Assembly 3MSecondary/Final
Stage Air Filter/RegulatorConsumable Starter
Kit

Universal Connector



Efficient and safe, the Central adapter offers quick torch connection and interchange.

Actual appearance and quantity of accessories/kits may vary.



Performance Specifications:

OCV	240V
Amps Output	20-80A
Volts Output	88-112V
Post Flow	0-50 Seconds
Air Compressor Requirement	7CFM @ 90PSI
Max Air Supply Pressure	90 PSI
Operating (Cutting) Pressure	72-75 PSI
Torch Start Type	Blow-Back/Pilot Arc
Max. Severance Cut	1 7/16"
Max. Recommended Pierce	5/8"
Recommended for Daily use	1"
Max. Clean Cut	1 1/4"
Duty Cycle	60% @ 80A
Generator Recommendation*	15,000W (Surge)

*Generator should be certified by the manufacturer of the generator as providing clean power. Clean power is considered to be 5% or less THD (Total Harmonic Distortion). Everlast does not monitor or test generators to provide an approved generator list. Rather, the manufacturer should be able to supply this information.

Safety/ Unit Protection Features:

Over Temperature Warning	Yes
Over Current Warning	Yes
Low air pressure interrupt	Yes
Consumable in-place interrupt	Yes
Trigger Lock/Guard	Yes



CNC control socket includes pins for turn-on, ok-to-move, raw arc voltage, divided arc voltage (1/16 or 1/50) and ground. See manual for complete CNC pin-out details.

Up Close:

Digital meter allows the user to precisely adjust the cutter to any amp setting required.

Step-less adjustment offers precise control of amps without factory-fixed presets that impede selecting the best settings for the job.

Thermal overload protection Displays warning light and interrupts cutting until the plasma cutter has safely cooled.

Front mounted air pressure gauge allows the operator to verify proper air pressure at a glance, without having to check the rear of the machine.

Adjustable Post Flow is a feature unique to Everlast. This helps improve consumable and torch life. It also allows convenient setting for operation with semi-automated systems. The air flow test allows constant air flow which is used for purging or setting air pressure without igniting torch.

Low air pressure warning interrupts cutting when air pressure drops below safe operating limits. Light stays on while the air pressure is in the safe operating range.

Torch trigger lock (2T/4T CNC) allows the arc to be locked on while cutting so trigger does not need to be held. This improves functionality while working with long cuts or track torch systems which require a remote switch.



All specifications subject to change without notice.

All Everlast PowerPlasma units are covered by a 5 year parts and labor warranty.

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