

# PowerPlasma 100



**PROCESS:** PAC with High Frequency start/Pilot Arc  
**INPUT:** 220V-240V 1/3 Phase, 78A/45A, 50/60Hz  
**OUTPUT:** 20-100A; 88-120V  
**INVERTER TYPE:** Infineon IGBT module construction

**OCV:** 250V  
**RATED CUT:** 1 1/2"  
**MAXIMUM CUT:** 1 3/4"  
**DUTY CYCLE:** 60% @ 100A, 100% @ 80A

**DIMENSIONS:** 11"Wx24"Lx24"H  
**WEIGHT:** 90 lbs., unit only  
**PROTECTION CLASS:** IP21S  
**INSULATION GRADE:** F

**Proven, affordable performance is here.**



**PAC**

## 20-100 Amp Cutting Range

Never worry again about having the right tool to do the job. Stepless adjustment allows you to select precisely the right amps needed for the job. Cuts can be made in thin gauge materials with accuracy. Plate metal poses no problem either with up to 1 3/4" maximum severance ability and 1 1/2" rated capacity for quality maximum cuts.

## Pilot Arc

The pilot arc gives you the ability to maintain cutting over rough or irregular surfaces like expanded metal and grating. With Everlast's Pilot Arc system, the pilot arc will maintain an arc when continuity is lost or when starting an arc off the metal. The system automatically senses the loss of continuity and transfers the arc back to the torch to complete the circuit.

## Infineon IGBT Power Modules

Inverters have revolutionized the industry by reducing size and weight while improving operating efficiency. The use of Infineon IGBT Power modules provide rugged service over the lifespan of the unit. The use of IGBT modules simplify component circuitry and reduce weight while providing excellent arc performance.

## High Frequency Start

The High Frequency start is reliable and quick to initiate. It works great for hand cutting applications. Consult Everlast for special order blow-back start and inductor start options for optimum CNC use.

## CNC Ready

The CNC socket is already installed in the back of the unit and works well with any shielded plasma table designed for larger HF 100+ amp units. Consult Everlast for optional machine torch and arc starting options for best CNC results.

## High Duty Cycle

With a duty cycle of 60% at full output, the PowerPlasma 100 cutter is a industrial capable unit, and features 100% duty cycle at 80 amps. The unit is equipped with a self protection feature which shuts down the unit automatically if thermal conditions surpass the threshold.

## 1 and 3 Phase

The PowerPlasma 100 is one of the only 100+ amp plasma cutters on the market capable of 1 and 3 phase operation.

Since Everlast is rewriting the books on affordable plasma cutting, we decided to go ahead and add a few pages. The PowerPlasma 100 is the first 100 amp inverter plasma cutter on the market to be offered under \$2000.00. But don't let the price fool you. Packed with quality IGBT components from Infineon and equipped with an ergonomic Trafimet® high frequency A-101 torch, the PowerPlasma 100 cuts cleanly, and accurately through any kind of metal.

If you regularly need to cut heavy metal plate, whether with CNC applications or recycling scrap metal, the 100 amp output of the machine easily cuts metal over 1.5 inches with a rated 60% duty cycle. The high frequency start and pilot arc features are perfect for cutting grating, catwalk material, and even rusted metal stock.

The PowerPlasma 100 has been carefully designed for those who demand true industrial performance. But when you consider the price, it's an excellent choice that will please the both the user and the bookkeeper.

### RATED CUTTING CAPACITY\*



\*Image not to scale. Rated for quality maximum cut.



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# PowerPlasma 100



Trafimet A-101 Torch  
15 ft.



300 Amp Work Clamp  
Cable Assembly



Regulator/Filter for  
Compressed Air



A-101 Consumable  
Starter Kit

## Universal Connector



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

Actual appearance of accessories may vary.



## Plasma Specifications:

OCV	250V
Amps	20-100 A
Volts	88-120V
Post Flow	Automatic
Air Compressor Requirement	>8 CFM @ 90 psi 60 gallon tank
Inlet Air Pressure	≤90 psi
Cutting Pressure	70-75 psi
Maximum Rated Cut	1 1/2"
Maximum Severance Cut	1 3/4"
Maximum Pierce	1"
Minimum Cut	28 gauge
Routine Cut	≤1 1/4"
Torch type	High Freq./Pilot Arc



## Up Close:

**Digital meters** allow the user to precisely adjust the unit to the required current and monitor arc voltage at the same time.

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

**Thermal overload protection** warns when the duty cycle has been exceeded and interrupts cutting until the plasma cutter has safely cooled.

**Phase warning** indicates if welder is improperly wired, or if power phase drops out while cutting.

**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.

**Test gas feature** allows air pressure to be properly set with the air flowing without having to initiate the cutting arc.

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.