

CUT-120A

100% duty cycle 120 amp plasma power source for CNC

Industry-leading cutting quality

- Real-time communication with the CNC system, and more precise control of the cutting quality through the data base.
- Increase the current at the moment of piercing and enhance the piercing ability.
- Intelligently control the corner cutting current to improve the quality of corner cutting and avoid over-burning.

We provide a five-year warranty!

- We provide every Misson customer with a five-year warranty for the core components of the power supply. The confidence in quality comes from the dual-module IGBT and excellent heat dissipation system.
- Tower air duct and soft switch technology minimize the power consumption of each cutting.
- The electrical components used in the production process are all from large factories, and the coils are made by hand.

Advanced process control and delivery

- The selection console manages the selection and mixing the plasma gases according to the thickness and material of the cutting plate, and enhance the cutting ability of carbon steel, stainless steel and aluminum. And cutting with oxygen or nitrogen will be better than cutting with air.

Non-HF torch optional

- Non-High Frequency Arc Ignition Technology, Matched With Low
- Frequency Cutting Torch, Perfectly Forms The Anti-Power Interference, The Arc Starting Is More Concentrated.



Current range	120 amps
Mild Steel Cutting Performance	
Recommended cutting capacity	16-18mm
Torch-Model	P80
Torch cooling method	air-cooled
Piercing capacity	18mm
Input voltage	380V 3 phase
weight	44KG

Carbon steel cutting ability	120A
Recommended	18mm
Pierce	18mm
Severance	20mm
Stainless steel cutting ability	
Recommended	18mm
Pierce	18mm
Severance	20mm

Specifications

Model	CUT-120A
Standards of power supply	300~380v/3 phase 220V /50Hz±10%
input power	22.4KVA
Rated output current	120A(High frequency) /125A(Low frequency)
Rated output voltage	128V
Duty-cycle	100%
No-load voltage	300VDC
Current adjustment range	30~120A
High quality cutting thickness	0.3-18mm
Maximum cutting thickness	18mm
Use of plasma gas	Compressed air
Working gas pressure	0.4~0.6MPa
The cooling method of cutting torch	air-cooled
Arc ignition mode	High frequency/ Low-frequency ignition
Insulation grade	F
NEMA	IP21S
Weight	44kg /49kg(low frequency)
Package weight	47kg /51kgg(low frequency)
Size	680*340*585mm
Package Size	725*350*700mm

Torch consumable parts

Sheet thickness(mm)	1--5	5--15	15--20	25--40
Nozzle aperture(mm)	1.1	1.3	1.5	1.7
Corresponding current(A)	40	60	80	100
Cutting speed(mm/min)	2000-3500	800-1600	650-1500	450-1300
Arc voltage(V)	100-115	110-130	120-150	130-180

- According to the thickness of the plate, set the current, arc voltage, and pierce height (generally not less than 5mm) piercing time. Set a lower speed first, and gradually increase the speed during the cutting process to achieve the desired cutting effect.

