

PARAMETERS

INVERTER AIR PLASMA CUTTING MACHINE



ITEM	UNIT	83A	100A	120A	200A	300A	400A
INPUT POWER	V/Hz	3-380V±15% 60/ 60 HZ	3-380V±15% 60/ 60 HZ	3-380V±15% 50/ 60 HZ	3-380V±15% 50/ 60 HZ	3-380V±15% 60/ 60 HZ	3-380V±15% 50/ 60 HZ
RATED INPUT CAPACITY	KVA	9.5	17.8	22.2	38.8	70.1	93.6
RATED INPUT CURRENT	A	14.6	27	34	71	100	139
RATED OPEN CIRCUIT VOLTAGE	V	300	300	300	315	380	380
RATED CUTTING CURRENT	A	63	100	120	200	300	400
RATED CUTTING VOLTAGE	V	105	120	128	160	200	200
CURRENT ADJ RANGE	A	30-63	30-100	30-120	40-200	60-300	60-400
MAX CUT THICKNESS (STEEL)	MM	25	40	45	65	80	90
QUALITY CUTTING THICKNESS (STEEL HAND-HELD)	MM	0.3-12	0.3-22	0.3-25	1-45	1-50	1-50
QUALITY CUTTING THICKNESS (STEEL MACHINE)	MM	6	12	15	25	35	40
PLASMA GAS	-	COMPRESSED AIR	COMPRESSED AIR	COMPRESSED AIR	COMPRESSED AIR	COMPRESSED AIR	COMPRESSED AIR
AIR PRESSURE	MPA	0.3-0.5	0.45-0.6	0.45-0.6	0.45-0.6	0.45-0.6	0.45-0.6
OUTPUT SIGNAL OF ARC VOLTAGE	-	1:1 / 1:20 1:50 / 1:100 ARC VOLTAGE					
CUTTING TORCH COOLING MODE	-	AIR COOLING	AIR COOLING	AIR COOLING	AIR COOLING/WATER COOLING	AIR COOLING/WATER COOLING	AIR COOLING/WATER COOLING
RATED DUTY CYCLE	%	60/40° C	100/40° C	100/40° C	100/40° C	100/40° C	100/40° C
INSULATION GRADE	-	F	F	F	F	F	F
PROTECTION GRADE	-	IP21S	IP21S	IP21S	IP21S	IP21S	IP21S
DIMENSIONS (L×W×H)	MM	585×280×485	695×320×580	895×320×580	800×380×810	890×420×900	890×420×900
POWER SOURCE N.W	KG	26	51	52	82	140	145

Main Features

All the important parts in this plasma cutting machine like IGBT, diode, integrated circuit, relay, current and voltage regulator are world famous brand which have high reliability.

Soft switch technology, improve the IGBT and it's reliability.

100%(40°C)duty cycle, it is suitable for long time, heavy load, high temperature and bad circumstances.

Inverter control power source: Small volume, little weight and energy saving.

Current up-slope function: Reduce the impact on striking arc and decrease consumption of cutting torch parts.

Air pressure, hydraulic pressure sensor: Protect torch from being burnt efficiently.

Machine type setting: Arc striking signal, arc pressure signal, air supply control and arc pressure output function makes it specially suitable for CNC and robot cutting.

Two machines parallel use is available, double the output current to cutting extra-thickness material well.