

PLASMATEC AC



- COMPACT DESIGN
- MINIMAL RESIDUAL ENERGY AND FAST ARC RECOVERY
- RS232-INTERFACE
- WATER COOLING
- OPTIONAL FIELD BUS
- OPTIONAL INTEGRATED CONTROL PANEL
- CUSTOM SOLUTIONS AVAILABLE

The primary switched-mode **PLASMATEC AC** power supply delivers an AC output voltage from 400 to 2000V at an output frequency of 38.5 kHz. Individual modules are available with an output power of 10kW or 15kW. The duty cycle can be adjusted via the RS232 interface from 0-100%. The devices can be set via the integrated analog / digital interface or RS232 interface. Optionally, an integrated control panel, or field bus are available.

SPECIFICATIONS:

Input:

Input voltage	400Vac \pm 10%
	50 or 60Hz, three phase
Input current	10kW: max. 20A
	15kW: max. 30A

Output:

Output power	10kW at 600 to 2000V
	15kW at 600 to 2000V
Output voltage	600 - 1000V AC (1st tap)
	840 - 1400V AC (2nd tap)
	1200 - 2000V AC (3rd tap)
Ignition voltage	\pm 2500V
Output frequency	38,5kHz
Output current	10kW
	15kW
	5A at 2000V
	7,5A at 2000V _{av}
	16A at 600V
	25A at 600V _{av}

Output controls:

Control of	voltage, current, power
Arc detection	<1 μ sec
Arc threshold	0-100% adjustable for each tap
Arc injection time	adjustable 0-100 μ sec
Arc pause time	adjustable 0-1000 μ sec
Arc Energy	10kW <3mJ at 2000V
	15kW <3mJ at 2000V
Duty cycle of	12.5% - 100% adjustable

Cooling system:

Water Cooling:	yes
Temperature:	5°C min, 35°C max.
	non condensing
Water flow rate:	4 l/min, > 3.5bar <6bar
Water connector:	10mm

Power connections:

Input	3-pin modular Han (Harting)
Output	Lapp Epic HB16 with two GES-HV modules
Output cable	1 x RG213/U

Dimensions (H x W x D):

10kW:	3HEx19"x600mm (695mm incl. plug)
15kW:	3HEx19"x600mm (695mm incl. plug)

Protection:

IP 54

CE Marking:

DIN VDE 0160 / EN50178
Emission: EN55011 Group 2, Class A
Immunity: EN 61000-6-2

SELECTION TABLE

MAXIMUM RATING			MODULE NUMBER
V _{av}	A _{av}	kW	
600-2000	16,6 – 5,0	10	NDCR2k05k0
600-2000	25,0 – 7,5	15	NDCR2k07k5