

PLASMA TEC DCp



The **PLASMA TEC DC** pulsed DC power supply provides a DC output voltage from 400 to 800V. Individual modules are available with an output power of 10kW and 20kW. Both options can be coupled in parallel using fiber optics to increase power to 150kW. The devices can be set via the integrated analog / digital interface or RS232 interface. Optionally, an integrated control panel or field bus is available.

SPECIFICATIONS

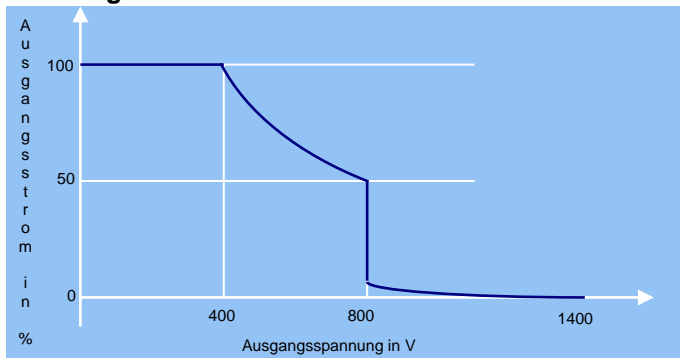
Input:

Input voltage	400Vac ± 10%
	50 or 60 Hz, three phase
Input power	10kW max. 20A
	20kW max. 40A

Output:

Output power	10kW at 400 to 800V
	20kW at 400 to 800V
Output voltage	±400 - ±800V DC
Ignition voltage	±1400V
Output current	10kW 20kW
	12,5A at 800V 25A at 800V
	25A at 400V 50A at 400V

V/I Diagram:



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

Output controls:

Control of	voltage, current, power
Arc detection	<1µsec
Arc threshold adjustable	0-800V
Arc injection time adjustable	0-100µsec
Arc pause time adjustable	0-1000µsec
Arc Energy	10kW <3mJ at 800
	20kW <6mJ at 800V

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 Han modular (Harting)
Output	Lapp-Epic HB16 with 2
	GES-HV-Modules
Output cable	2 x RG213/U

Dimensions (H x W x D):

10kW:	3HEX19"x600mm (695mm incl. plug)
20kW:	3HEX19"x600mm (695mm incl. plug)

Protection:

IP 54

CE Marking:

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

SELECTION TABLE

MAXIMUM RATING			MODULE NUMBER
V	A	kW	
400-800	25 – 12,5	10	NDCR0k812k
400-800	50 – 25,0	20	NDCR0k825k