

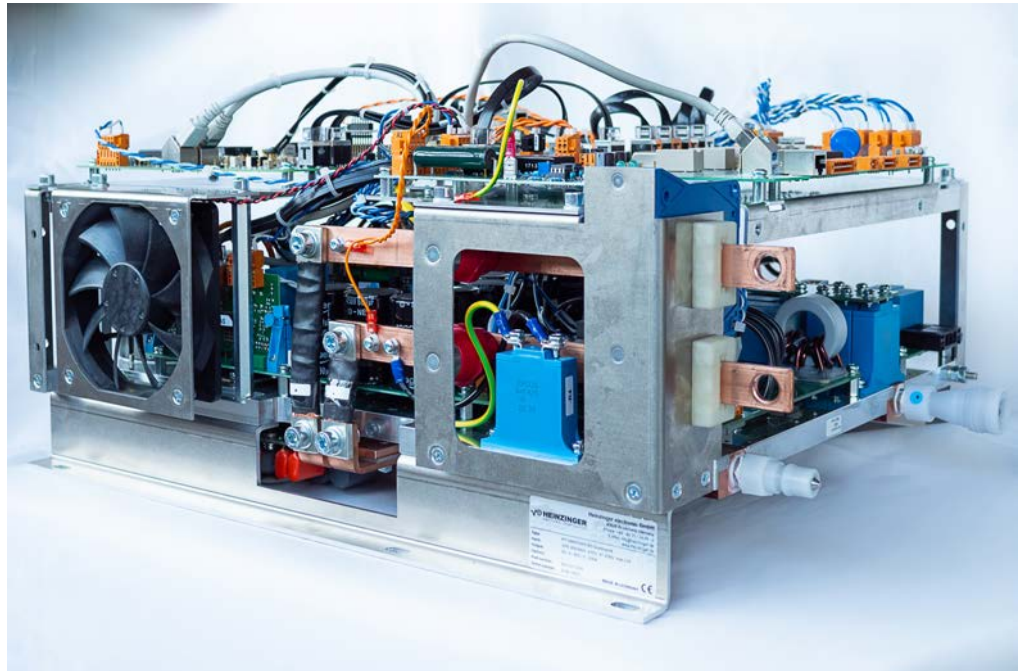
# HEINZINGER MAGNET POWER SUPPLIES

Magnet power on the highest performance level.

**MPS**  
Flexible.

### Highlights:

- For inductive loads
- Standard-Configuration or possibility of cascading
- Flexible combination of DC-output current/voltage
- Slim Design
- Water cooling
- Ethernet Interface



Heinzinger electronic delivers Magnet-Power supplies which are adapted for inductive loads and where the regulation behavior is optimized accordingly. To cover the challenging customer-requirements and applications, Heinzinger offers the possibility to cascade the available basis-components to ensure flexibility on the highest level.

Beside control, regulation and current measurements - the required combination of current and voltage can be performed at customers needs.

Flexibility has the highest priority therefore; combined with a slim and cost-optimized design.

Ethernet Interface and watercooling are standard as well as 19" housing, where the components including infrastructure are installed. Differing or additional customer requirements can be considered independently.

		Parameter			
		U	I	P	
Quadrupole		26V	130A	3.5kW	6HE
		26V	260A	7kW	
		60V	220A	13kW	
		tbd			
Dipole		120V	125A	15kW	max. 12 PS
		150V	90A	13kW	
		tbd			

**Standard / Basis:**  
Ethernet, Water cooling, Rack-Montage (19")

Currently available configuration (Stand: Oct. 2021)



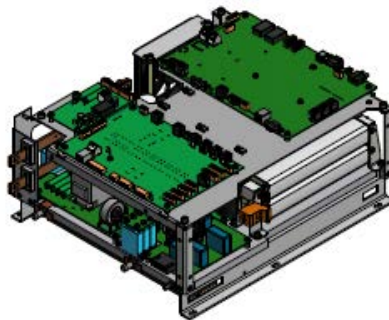
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## Exampel of configuration:

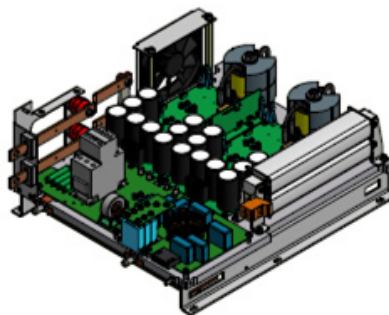
### MPS basis-components and power-stage #1:

- Mains rectifier
- current regulation
- power stage control
- current measurement
- PS #1 with 7.5 kW output-power
- Ethernet-Interface (remote control IF)
- Customer-Interface (e.g. USB, LCU)



### MPS power-stage #2:

- PS #2 with 7.5 kW output-power



### MPS power-stage #3 .... #12

- up to 12 power-stages within one rack (19")
- approx. 100 kW

## specific parameters, overview:

Mains Input:	Supply Voltage	400/480V $\pm 10\%$ , 50/60 Hz
Precision:	Current Accuracy	<10ppm
	Current Ripple	<10ppm
	Current Stability	<10ppm/hour
Dynamic:	di/dt	>300A/sec. (up to 100kA/sec.)
Efficiency:		>90 %
Operation:	local	LCU - Local Control Unit
	remote	Ethernet Interface
Cooling:	Water-Cooling	also for deionized water
Customer IF:	Magnet Readback	magnet errors, magnet water errors, etc.

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**HIGH VOLTAGE  
BUT SMART**