

MedAustron Power Converters

- ~ 300 units required for
 - Magnet

Could be distributed into 5 family

Power Converter Families

- DC commercial (of the shelf)

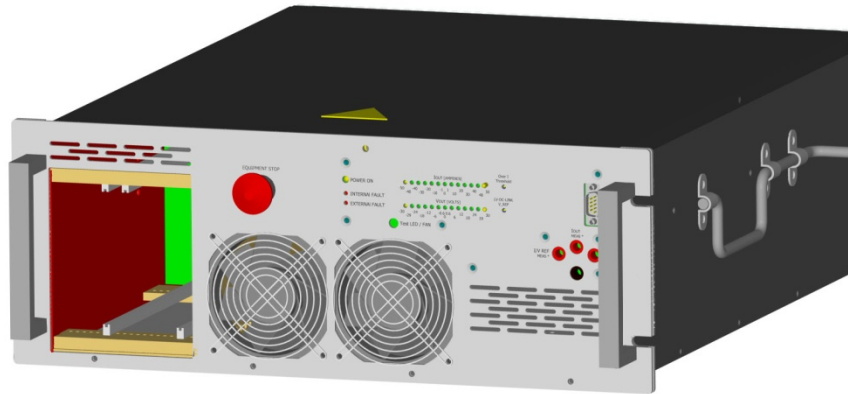
		Qty
– 1 quadrant	10V; 30A	40
– 1 quadrant	15V; 300A	36

Control via RS 422
need(probably) adaptation to remote control via external chassis



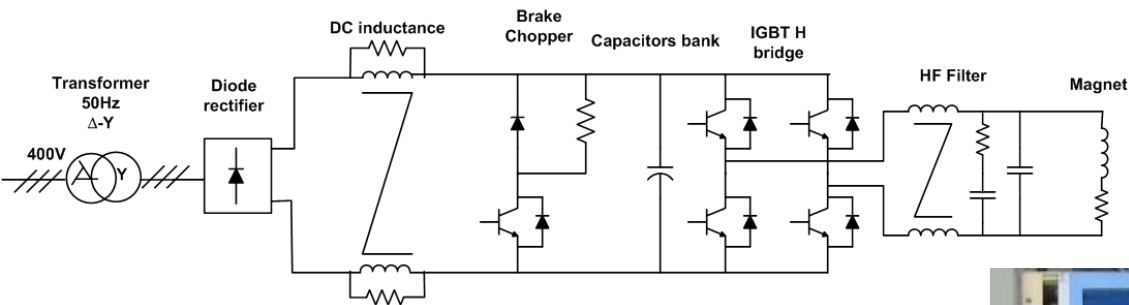
Power Converter Families

- | | Qty |
|--|-----|
| <ul style="list-style-type: none">4 Quadrant 50A; 30V to build on request
control to be integrated in the PC | 30 |

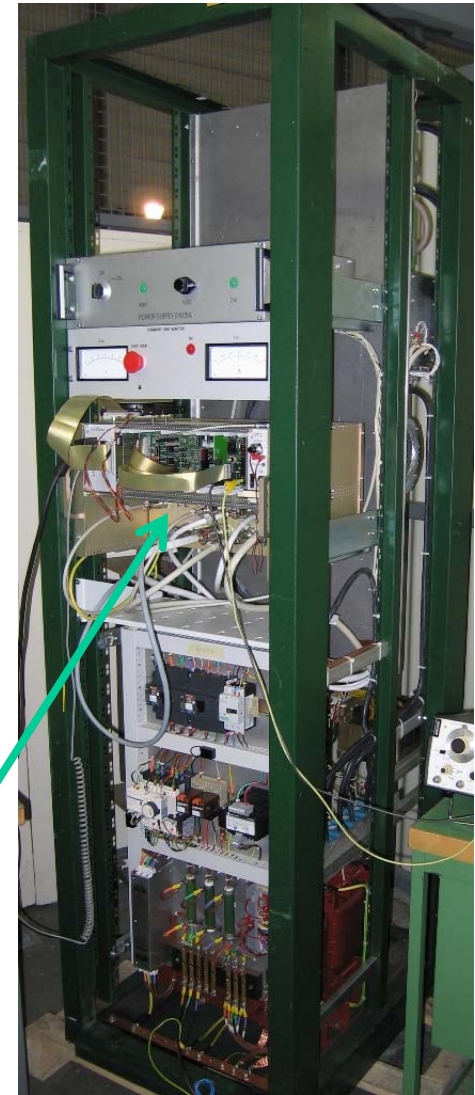


Power Converter Families

		Qty
4 Quadrant	150A; 40V	90
4 Quadrant	650A; 60V	12
4 Quadrant	350A; 70V	110

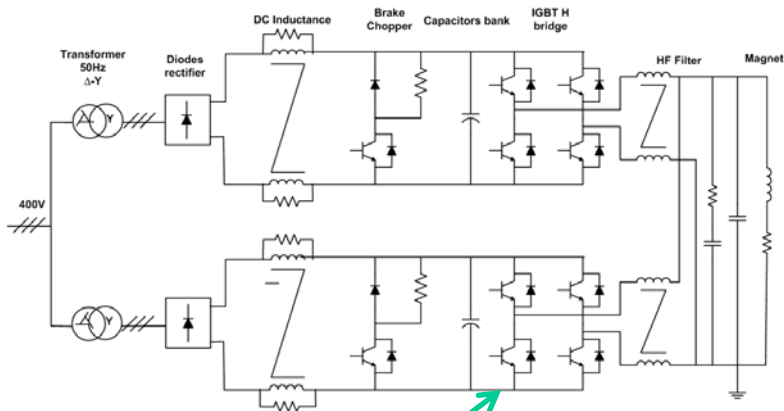


dedicated electronics chassis with space to house remote control



Power Converter Families

		Qty
4 Quadrant	350A; 125V	10
4 Quadrant	700A; 250V	12
4 Quadrant	3000A; 180V	11
4 Quadrant	1500A; 500V	1
4 Quadrant	4000A, 50V	2



2 bridges in //



dedicated electronics chassis with space to house remote control

Power Converter Families

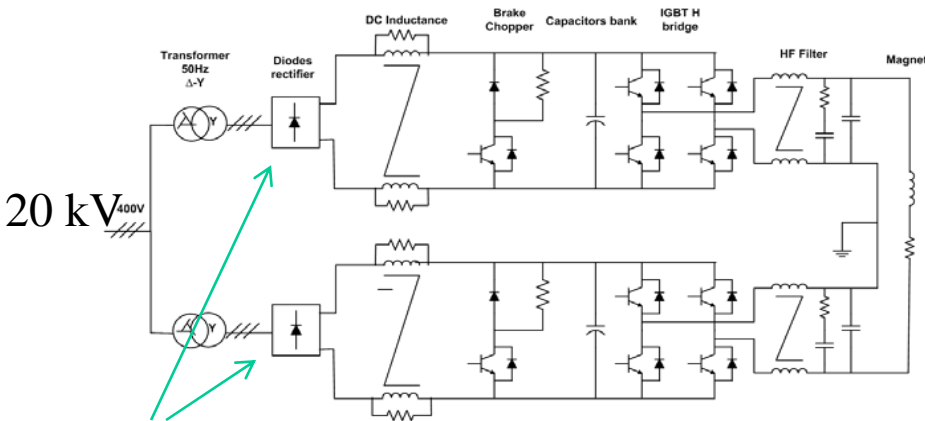
4 Quadrant 2300A; 600V

Qty

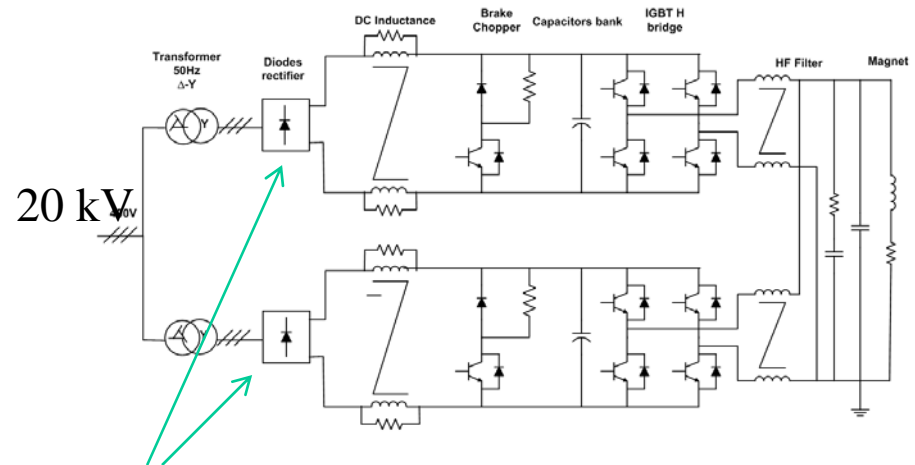
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4 Quadrant 3000A; 1400V

1



Active Front End



Active Front End

Summary

- a) 76 commercial PC 1 Q for DC applications LEBT, MEBT
can be analogue driven or digitally via RS 422 (232, ...)
- b) 30 4 Q 1.5 kW Function Generator + pc Controller
Remote control integrated in the converter
- c) 212 4 Q 6 – 40 kW Function Generator + pc Controller
- d) 36 4Q 50 – 550 kW Function Generator + pc controller
Same electronics
Remote control integrated in the electronics crate
- e) 2 4Q 1.4 - 4.2 MW Function Generator + pc Controller
Specific electronics
Remote control integrated in the electronics crate

FGC and Converter functionalities

