



DIRECT CURRENT ALTERNATE CURRENT CONVERSION

This type of converters are used in ac motor drives and in ac uninterruptible power supplies, where the objective is to supply a sinusoidal ac output with controlled amplitude and frequency. In this section of the laboratory inverters and frequency converters are studied.

LIST OF EXPERIMENTS

DCA 204.1 INVERTERS

- Single-phase full-bridge dc chopper. PWM control.
- Single-phase full-bridge inverter. Square-wave PWM control.
- Single-phase full-bridge inverter. Sinusoidal PWM control.

DCA 204.2 FREQUENCY CONVERTERS

- Frequency converter
- Input controlled rectifier
- Output power inverter

Code	Description	DCA 204.1	DCA 204.2	Total quantities
DL 2610	GROUP OF IGBT	1		1
DL 2611	BRIDGE THREE PHASE RECTIFIER	1		1
DL 2613	DC POWER SUPPLY	1	1	1
DL 2614	VOLTAGE REFERENCE GENERATOR	1	1	1
DL 2619	PWM/PFM/TPC CONTROL UNIT	1		1
DL 2625	MATCHING AMPLIFIER	1		1
DL 2626	MAINS TRANSFORMER	1		1
DL 2627	CAPACITORS	1		1
DL 2628	SUPER FAST FUSES	1		1
DL 2633	FUNCTION GENERATOR	1		1
DL 2635	LOAD	1	1	1
DL 2640	EMI FILTER	1		1
DL 2642	ISOLATION AMPLIFIER	opt.	1	1
DL 2643	SUPPORT WITH 3 SHUNTS 1 OHM	1		1
DL 2644	SUPPORT WITH 3 SHUNTS 0,1 OHM	1		1
DL 2646	FREQUENCY CONVERTER		1	1
DL 2108SAL	SINGLE PHASE SUPPLY UNIT		1	1
DL 2109T33	TRUE RMS METER	2	2	2
DL CRON	ELECTRONIC STOPCLOCK		1	1
	STORAGE OSCILLOSCOPE	1	1	1
	TESTER	1		1
DL 2100-3M	FRAME	2	2	2
DL 2100TA	STORAGE CABINET	1	1	1
DL 1001-1	WORKING BENCH	1	1	1
DL 1155POW	CONNECTING LEADS	1	1	1
	For the Countries where the 3-phase mains supply is different from 380V:			
DL 2600ATT	THREE PHASE TRANSFORMER	1	1	1