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Explain the operation of single phase semiconverter with waveforms.

Describe operation of single phase half wave rectifier circuit with RLE load. Draw its waveform.

Explain the operation of three phase bridge inverter in 180° mode with waveforms.

Explain external control of ac output voltage in inverter.

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6. a) Discuss the working of step-up chopper with diagram and waveforms.

What is duty cycle? Explain the control strategies of output voltage in chopper.

Explain the working of four quadrant chopper i.e type E chopper.

A step up chopper has input voltage of 220V and output voltage of 660V. If the non-conducting time of thyristor chopper is 100 µs, compute the pulse width of output voltage.

In case pulse width in halved for constant frequency operation, find the new output voltage.

Explain single phase AC voltage controller with R-load. Draw its voltage and current waveforms.

Explain three phase to single phase cycloconverter. Draw its fabricated and mean output voltage waveforms.

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