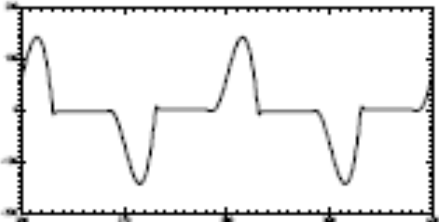
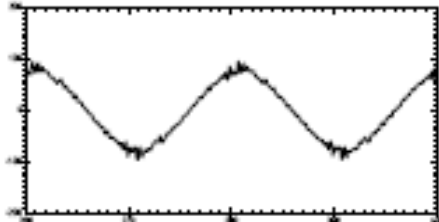
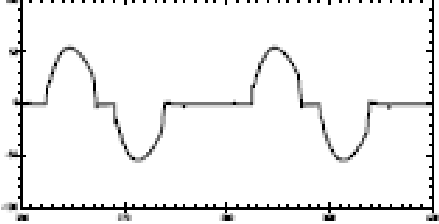
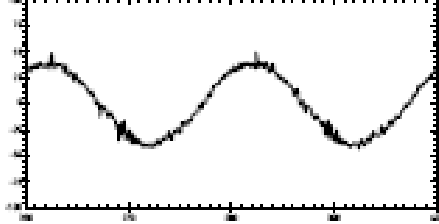
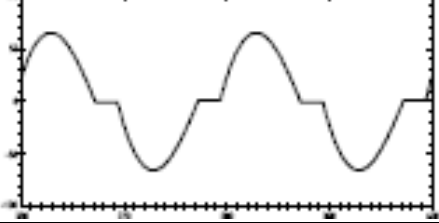
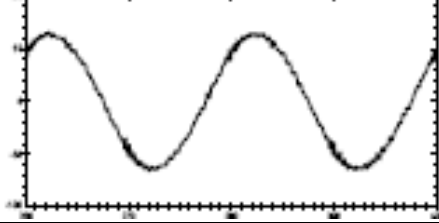
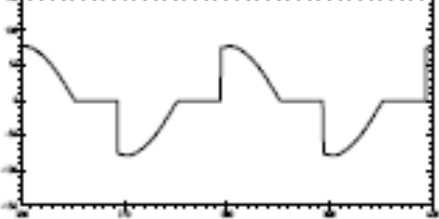
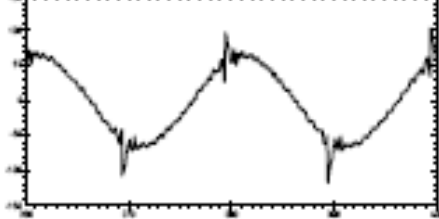
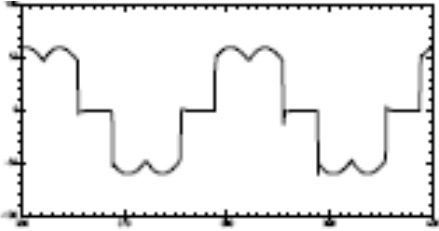
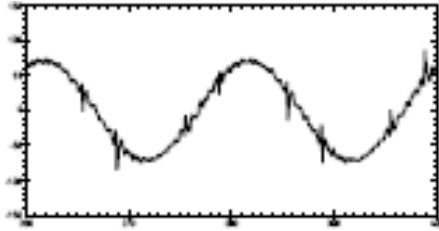
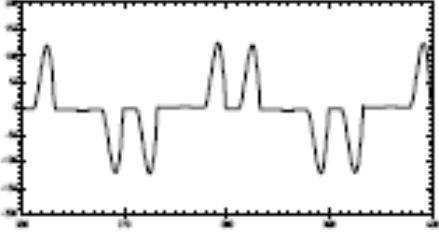
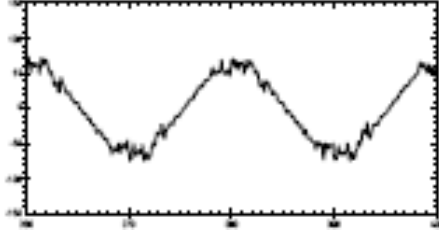
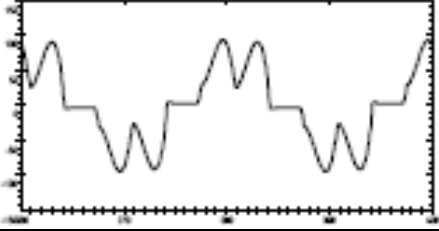
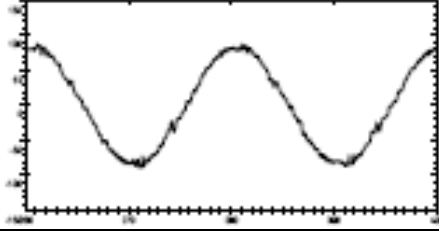
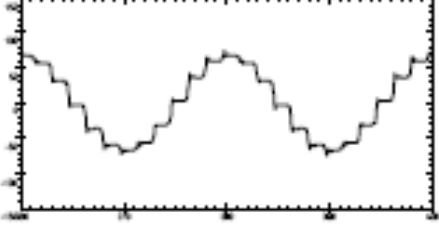
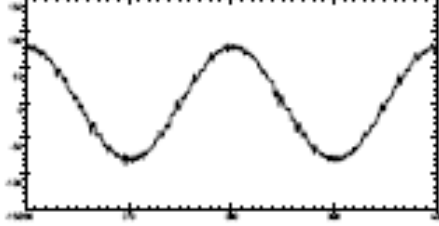


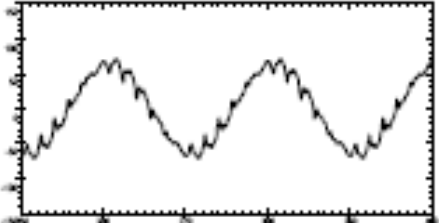
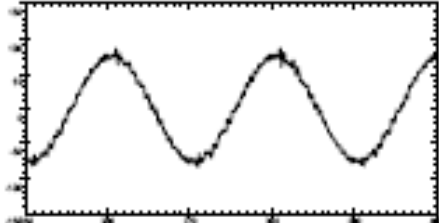
## Harmonics Spectrum of non-linear loads

| Type of Load                  | Current Waveform  | Supply current with AHF  | Load Current THD (%) | Supply current THD (%) | Approx. Active Filter Rating (rms current/kVA of load) |       |
|-------------------------------|---|--|----------------------|------------------------|--|-------|
|                               |   |  |                      |                        | 120/208 V  | 480 V |
| 1-phase power supply          |    |    | 84                   | 8.2                    | 1.79   | 0.77  |
| Semi-converter                |    |    | 87                   | 9.6                    | 1.82   | 0.79  |
| AC Voltage Regulator, RL Load |   |   | 23                   | 4.3                    | 0.62   | 0.27  |
| AC Voltage Regulator, R Load  |  |  | 51                   | 16.7                   | 1.26   | 0.54  |

## Harmonics Spectrum of non-linear loads

| Type of Load  | Current Waveform  | Supply current with AHF  | Load Current THD (%) | Supply current THD (%) | Approx. Active Filter Rating (rms current/kVA of load) |       |
|---|---|--|----------------------|------------------------|--|-------|
|   |   |  |                      |                        | 120/208 V  | 480 V |
| 6-pulse Current Source Inverter                           |    |    | 31                   | 10.3                   | 0.82   | 0.36  |
| 6-pulse Voltage Source Inverter without series inductance |    |    | 109                  | 13.2                   | 2.05   | 0.88  |
| 6-pulse Voltage Source Inverter with 3% line inductance   |   |   | 45                   | 5.0                    | 1.14   | 0.49  |
| 12-pulse Current Source Inverter                          |  |  | 13                   | 5.6                    | 0.36   | 0.15  |

### Harmonics Spectrum of non-linear loads

| Type of Load                     | Current Waveform  | Supply current with AHF  | Load Current THD (%) | Supply current THD (%) | Approx. Active Filter Rating (rms current/kVA of load) |       |
|----------------------------------|---|--|----------------------|------------------------|--|-------|
|                                  |   |  |                      |                        | 120/208 V  | 480 V |
| 12-pulse Voltage Source Inverter |  |  | 13                   | 6.3                    | 0.36   | 0.15  |