Ramp rates in HL LHC orbit correctors

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- Magnet parameters
  - Nominal current 1.5 kA
  - Inductance is 58/125 mH (MCBXFB, inner/outer dipole)
  - Inductance is 107/232 mH (MCBXFA, inner/outer dipole)

- Requirements
  - Ramp rate 1.5 A/s
  - Required 5 A/s – training at 5 A/s
  - Tested successfully up to 10 A/s
    - Inner dipole was ramped up to 100 A/s
    - In principle no limitations to high ramp rates 10-100 A/s (but QDS should be checked)
Magnet parameters
- Nominal current 392 A
- Inductance is 800 mH

Requirements
- Ramp rate 0.4 A/s
- Required 5 A/s

Tested successfully up to 6 A/s
- More was not possible due to power converter limitations
- In principle no limitations to high ramp rates 10-50 A/s (but QDS should be checked)