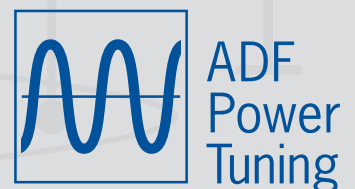


ADF

P100, 50 – 150 A
Active Dynamic Filter



- High Performance and Reliability
- Wall mounted
- Advanced Digital Control
- Wide range of current ratings
- Easy Installation
- Insensitive to Network Conditions
- Harmonic Elimination
- Total Power Factor Correction
- Active Load Balancing
- Dynamic VAR compensation
- Sensorless operation
- Non-overloadable
- Available in 208 – 480 V and 480 – 690 V version



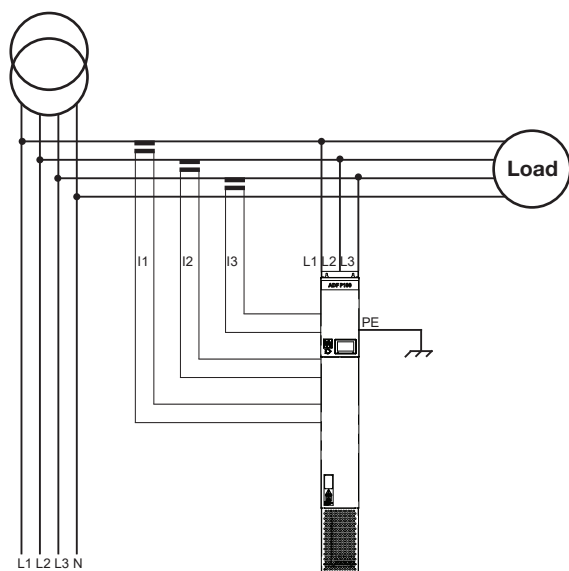
IMPROVED
VERSION

Technical Specifications

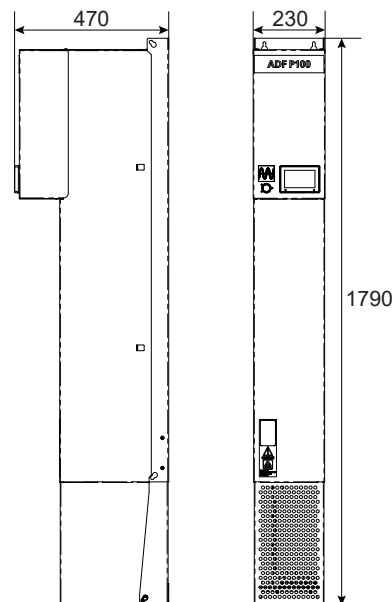
| Model | ADF P100-50/480 | ADF P100-75/480 | ADF P100-90/480 | ADF P100-120/480 | ADF P100-150/480 | ADF P100-90/690 |
|---|---|---------------------|---------------------|----------------------|----------------------|---------------------|
| Rated power * | 35 / 42 kVA | 52 / 62 kVA | 62 / 75 kVA | 83 / 100 kVA | 104 / 125 kVA | 94 /108 kVA |
| Compensation current capacity at 50/60 Hz | 50 A _{RMS} | 75 A _{RMS} | 90 A _{RMS} | 120 A _{RMS} | 150 A _{RMS} | 90 A _{RMS} |
| System voltage (± 10 %) | 480 V (208 – 480 V) | | | | | 690 V (480 – 690 V) |
| Nominal frequency | 50/60 Hz ± 5 % | | | | | |
| Number of phases | 3 phase 3 wire | | | | | |
| Connection type | 3 phase without neutral (TN, TT, IT**) | | | | | |
| Harmonic current compensated | individual compensation up to 49 th order | | | | | |
| Rate of harmonic reduction | better than 98 % | | | | | |
| Current compensation of cos φ | up to 1.0 | | | | | |
| Expandability | up to 15 ADF P100 units can be used in parallel | | | | | |
| Response time | < 1 ms | | | | | |
| Power dissipation | < 1600 W | < 2535 W | < 3180 W | < 3155 W | < 3225 W | < 2969 W |
| Maximum air flow requirement | 600 m ³ /h | | | | | |
| Noise level | < 70 dB(A) | | | | | |
| Environment | 0 to 95 % RH non-condensing, max altitude 1000 m without derating | | | | | |
| Operating temperature | 0 to 50 °C, up to 40 °C without derating | | | | | |
| Dimensions | 230 x 1790 x 470 mm (W x H x D) | | | | | |
| Weight | 91 kg | 91 kg | 91 kg | 105 kg | 116 kg | 150 kg |
| Enclosure color | RAL 7035 (light grey) RAL 5017 (traffic blue) | | | | | |
| Protection class | IP20, IP21** according to IEC 529, other ratings upon request | | | | | |
| Environmental conditions | chemical 3C2, mechanical 3S2 | | | | | |
| Electromagnetic compatibility | EN55011, Class B | | | | | |
| Certificates | CE, ABS, DNV GL | | | | | |

* Compensation power at 400 V / 480 V (600 V / 690 V) nominal voltage
 ** Option

Connection Diagram (example)



Dimensions (mm)



Comsys AB, Fältspatvägen 4, SE-224 78 Lund, Sweden
 Tel +46 10 209 6800
 info@comsys.se <http://adfpowertuning.com>

Partner: