

ADF

P300W, 140 – 450 A Active Dynamic Filter



- High Performance and Reliability
- Liquid cooled
- Modular and Scalable Design 140 – 450 A
- Advanced Digital Control
- Easy Installation
- Insensitive to Network Conditions
- Harmonic Elimination
- Total Power Factor Correction
- Active Load Balancing
- Dynamic VAR compensation
- Non-overloadable
- Available in 208 – 480 V and 480 – 690 V versions



COMSYS
Creating Value through Power Quality™

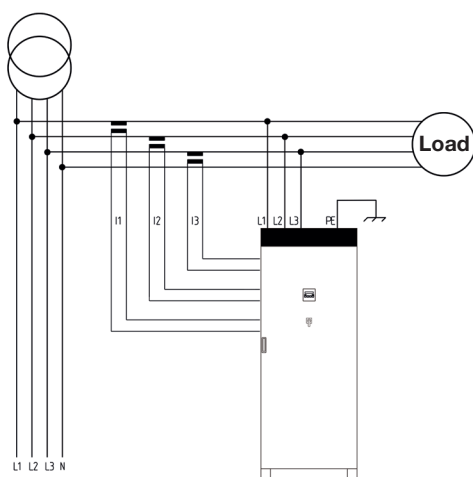
Technical Specifications

| Model | ADF P300W-150/480 (ADF P300W-140/690) | ADF P300W-300/480 (ADF P300W-280/690) | ADF P300W-450/480 (ADF P300W-420/690) |
|---|---|--|--|
| Rated power * | 104 / 125 / 146 / 168 kVA | 208 / 250 / 291 / 335 kVA | 312 / 375 / 437 / 502 kVA |
| Compensation current capacity at 50/60 Hz | 150 A _{RMS} (140 A _{RMS}) | 300 A _{RMS} (280 A _{RMS}) | 450 A _{RMS} (420 A _{RMS}) |
| System voltage ** | 480 V (208 – 480 V), 690 V (480 – 690 V) | | |
| Nominal frequency ** | 50/60 Hz ± 2 % | | |
| 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 | ADF P300W units can be used in parallel | | |
| Response time | < 1 ms | | |
| Power dissipation 480 V (690 V) | < 2550 W (< 3600 W) | < 5100 W (< 7200 W) | < 7650 W (< 10800 W) |
| Water flow requirement | ΔP = 66 kPa at 21 l/min | | |
| Noise level | < 60 dB | | |
| Environment | 0 to 95 % RH non-condensing | | |
| Operating temperature | 0 to 50 °C ambient and 38 °C temperature cooling medium | | |
| Dimensions | 800 x 2105 x 610 mm (W x H x D) | | |
| Weight 480 V (690 V) | 367 kg (372 kg) | 500 kg (510 kg) | 633 kg (648 kg) |
| Cabinet color | cabinet RAL 7035 (gray), base RAL 7022 (dark gray) | | |
| Protection class | IP54 according to IEC 529 | | |
| Environmental conditions | chemical 3C3, mechanical 3S3 | | |
| Electromagnetic compatibility | EN 61000-6-2, EN 61000-6-4 | | |
| Certificates | CE | | |
| Art no 480 V (690 V) | 400 072 (400 056) | 400 073 (400 057) | 400 074 (400 058) |

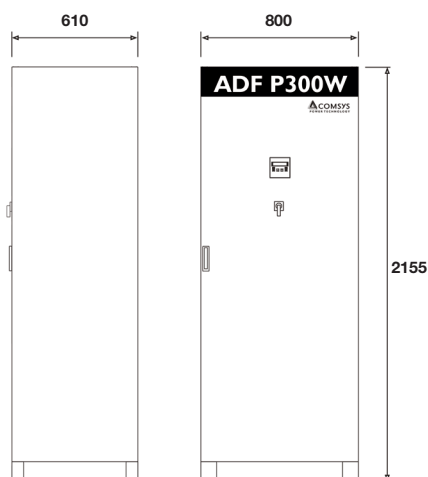
* Compensation power at 400 V / 480 V / 600 V / 690 V nominal voltage

** Please state your system voltage and line frequency when ordering

Connection Diagram (example)



Dimensions (mm)



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