

# ACTIVE DYNAMIC FILTER

## ADF P300

480 V CE: 120, 150, 240, 300, 360 A

480 V UL/cUL: 110, 220, 330 A

600/690 V CE: 90, 180, 270 A



HARMONIC  
ELIMINATION &  
LOAD BALANCING

CLOSED LOOP,  
OPEN LOOP &  
SENSORLESS  
CONTROL

FLICKER  
COMPENSATION

DYNAMIC VAR  
COMPENSATION

FLOATING GRID  
FREQUENCY  
SUPPORT

MODULAR &  
SCALABLE DESIGN

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# TECHNICAL SPECIFICATION ADF P300

| MODEL                                     | ADF P300-120/480<br>ADF P300-90/690   | ADF P300-150/480     | ADF P300-240/480<br>ADF P300-180/690         | ADF P300-300/480     | ADF P300-360/480<br>ADF P300-270/690         |
|---|---|----------------------|--|----------------------|--|
| COMPENSATION CURRENT CAPACITY AT 50/60 HZ | 120 A <sub>RMS</sub><br>90 A <sub>RMS</sub>   | 150 A <sub>RMS</sub> | 240 A <sub>RMS</sub><br>180 A <sub>RMS</sub> | 300 A <sub>RMS</sub> | 360 A <sub>RMS</sub><br>270 A <sub>RMS</sub> |
| SYSTEM VOLTAGE                            | 208 – 690 V   |                      |  |                      |  |
| NOMINAL FREQUENCY                         | 45 – 65 Hz (Including floating frequency)   |                      |  |                      |  |
| NUMBER OF PHASES                          | 3 phase 3 wire  |                      |  |                      |  |
| CONNECTION TYPE                           | 3 phase without neutral (TN, TT, IT)  |                      |  |                      |  |
| HARMONIC CURRENT COMPENSATED              | Individual compensation up to 49th order  |                      |  |                      |  |
| RATE OF HARMONIC REDUCTION                | Better than 98%   |                      |  |                      |  |
| CURRENT COMPENSATION OF COS φ             | Up to 1.0   |                      |  |                      |  |
| EXPANDABILITY                             | Up to 15 ADF P300 units can be used in parallel   |                      |  |                      |  |
| RESPONSE TIME                             | < 1 ms  |                      |  |                      |  |
| HEAT DISSIPATION                          | < 2725 W<br>< 2969 W  | < 3225 W             | < 5323 W<br>< 5813 W                         | < 6250 W             | < 7925 W<br>< 8657 W                         |
| MAXIMUM AIR FLOW                          | < 600 m <sup>3</sup> /h / 353 CFM   |                      | < 1200 m <sup>3</sup> /h / 706 CFM           |                      | < 1800 m <sup>3</sup> /h<br>1056 CFM         |
| NOISE LEVEL                               | < 70 dB(A)  |                      |  |                      |  |
| ENVIRONMENT                               | 0 to 95% RH non-condensing, max. altitude 1000 m / 3281 ft. without derating            |                      |  |                      |  |
| OPERATING TEMPERATURE                     | 0 to 50° C, up to 40° C without derating<br>32 to 122 °F, up to 104 °F without derating |                      |  |                      |  |
| DIMENSIONS (W × H × D)                    | 405 × 2168 × 636 mm<br>15.9 x 85.4 x 25 inch  |                      | 605 × 2168 × 636 mm<br>23.8 x 85.4 x 25 inch |                      | 805 × 2168 × 636 mm<br>31.7 x 85.4 x 25 inch |
| WEIGHT                                    | 335 kg / 739 lbs<br>351 kg / 774 lbs  |                      | 472 kg / 1041 lbs<br>495 kg / 1092 lbs       |                      | 609 kg / 1343 lbs<br>639 kg / 1409 lbs       |
| CABINET COLOR                             | Cabinet RAL 7035 (light grey), base RAL 7022 (umbra grey)                               |                      |  |                      |  |
| PROTECTION CLASS                          | IP22 according to IEC 60529, optional IP43, other ratings upon request                  |                      |  |                      |  |
| ELECTROMAGNETIC COMPATIBILITY             | EN 61000-6-2, EN 61000-6-4. Conducted emission EN 55011 class A1                        |                      |  |                      |  |
| ENVIRONMENTAL CONDITIONS                  | Chemical 3C3, Mechanical 3S3  |                      |  |                      |  |
| CERTIFICATES                              | CE, DNV   |                      |  |                      |  |

Comsys AB does not assume any responsibility for use of any product or method described and also reserves the right to make changes at any time without prior notice in order to improve design and supply the best possible products.

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# TECHNICAL SPECIFICATION ADF P300 UL

| MODEL                                     | ADF P300-110/480-UL<br>ADF P300-90/600-UL   | ADF P300-220/480-UL<br>ADF P300-180/600-UL   | ADF P300-330/480-UL<br>ADF P300-270/600-UL   |
|---|---|--|--|
| COMPENSATION CURRENT CAPACITY AT 50/60 HZ | 110 A <sub>RMS</sub><br>90 A <sub>RMS</sub>   | 220 A <sub>RMS</sub><br>180 A <sub>RMS</sub> | 330 A <sub>RMS</sub><br>270 A <sub>RMS</sub> |
| SYSTEM VOLTAGE                            | 480 V (208 - 480 V), 600 V (480 - 600 V)  |  |  |
| NOMINAL FREQUENCY                         | 45 - 65 Hz (Including floating frequency)   |  |  |
| NUMBER OF PHASES                          | 3 phase 3 wire  |  |  |
| CONNECTION TYPE                           | 3 phase without neutral (TN, TT, IT)  |  |  |
| HARMONIC CURRENT COMPENSATED              | Individual compensation up to 49th order  |  |  |
| RATE OF HARMONIC REDUCTION                | Better than 98%   |  |  |
| CURRENT COMPENSATION OF COS $\phi$        | Up to 1.0   |  |  |
| EXPANDABILITY                             | Up to 15 ADF P300 units can be used in parallel   |  |  |
| RESPONSE TIME                             | < 1 ms  |  |  |
| HEAT DISSIPATION                          | < 2480 W<br>< 2836 W  | < 4835 W<br>< 5547 W                         | < 7190 W<br>< 8258 W                         |
| MAXIMUM AIR FLOW                          | < 600 m <sup>3</sup> /h / 353 CFM   | < 1200 m <sup>3</sup> /h / 706 CFM           | < 1800 m <sup>3</sup> /h / 1056 CFM          |
| NOISE LEVEL                               | < 70 dB(A)  |  |  |
| ENVIRONMENT                               | 0 to 95% RH non-condensing, max. altitude 1000 m / 3281 ft. without derating            |  |  |
| OPERATING TEMPERATURE                     | 0 to 50° C, up to 40° C without derating<br>32 to 122 °F, up to 104 °F without derating |  |  |
| DIMENSIONS (W × H × D)                    | 405 × 2168 × 636 mm<br>15.9 × 85.4 × 25 inch  | 605 × 2168 × 636 mm<br>23.8 × 85.4 × 25 inch | 805 × 2168 × 636 mm<br>31.7 × 85.4 × 25 inch |
| WEIGHT                                    | 335 kg / 739 lbs<br>351 kg / 774 lbs  | 472 kg / 1041 lbs<br>495 kg / 1092 lbs       | 609 kg / 1343 lbs<br>639 kg / 1409 lbs       |
| CABINET COLOR                             | Cabinet RAL 7035 (light grey), base RAL 7022 (umbra grey)                               |  |  |
| PROTECTION CLASS                          | Nema 1  |  |  |
| ELECTROMAGNETIC COMPATIBILITY             | EN 61000-6-2, EN 61000-6-4. Conducted emission EN 55011 class A1                        |  |  |
| ENVIRONMENTAL CONDITIONS                  | Chemical 3C3, Mechanical 3S3  |  |  |
| CERTIFICATES                              | UL, cUL (UL508/CSA22.2)   |  |  |

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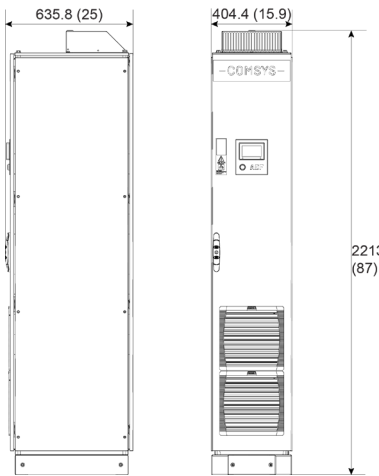
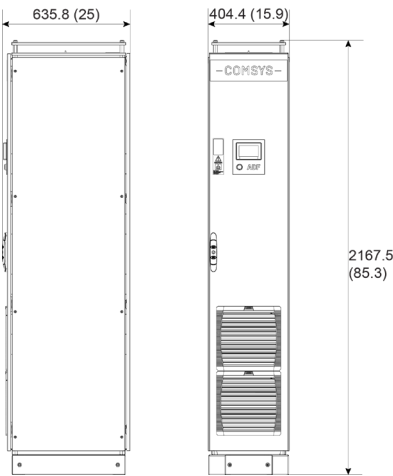
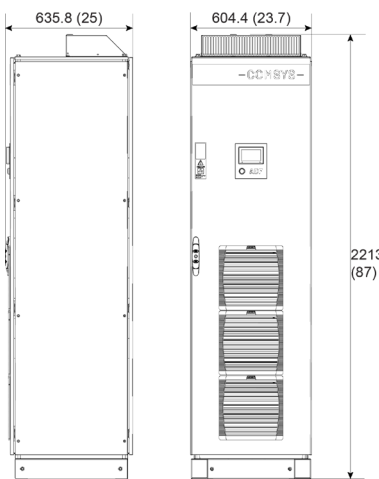
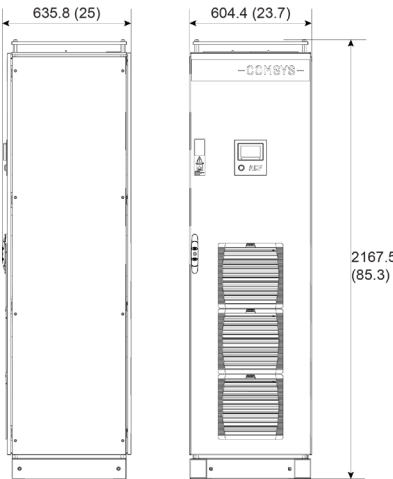
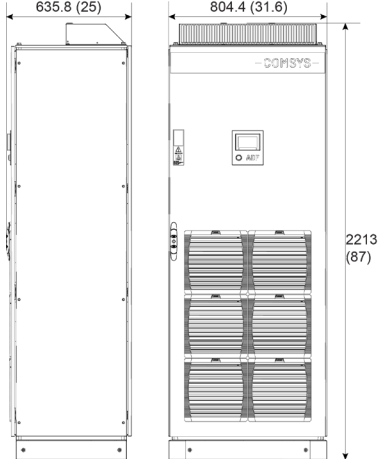
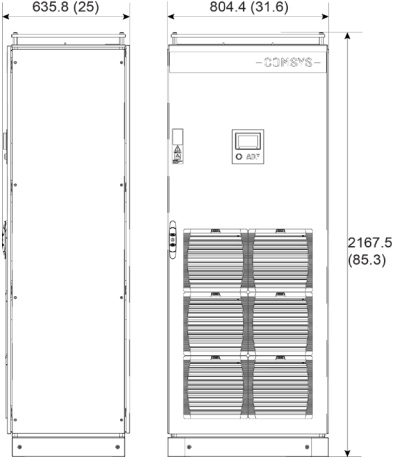
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# DIMENSIONS

mm (inches) IP22 cabinet

mm (inches) IP43 cabinet



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