

# ACTIVE DYNAMIC FILTER

## ADF P300

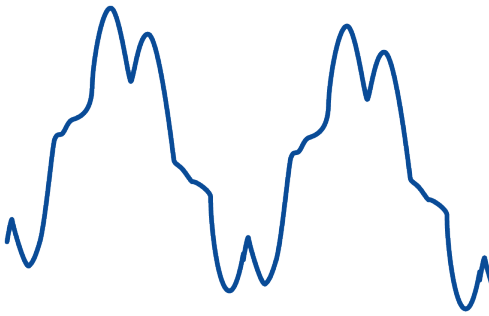
480 V CE: 120, 150, 240, 300, 360 A

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

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



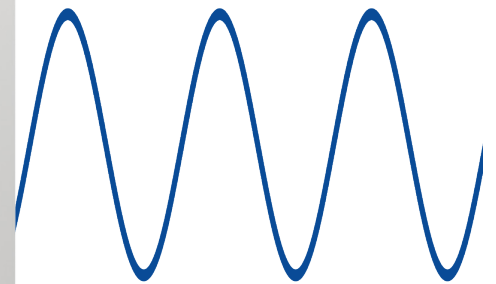
HARMONIC  
ELIMINATION &  
LOAD BALANCING



FLICKER  
COMPENSATION

FLOATING GRID  
FREQUENCY  
SUPPORT

CLOSED LOOP,  
OPEN LOOP &  
SENSORLESS  
CONTROL



DYNAMIC VAR  
COMPENSATION

MODULAR &  
SCALABLE DESIGN

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# TECHNICAL SPECIFICATION ADF P300

MODEL	ADF P300-120/480 ADF P300-90/690	ADF P300-150/480	ADF P300-240/480 ADF P300-180/690	ADF P300-300/480	ADF P300-360/480 ADF P300-270/690
COMPENSATION CURRENT CAPACITY AT 50/60 HZ	120 A <sub>RMS</sub> 90 A <sub>RMS</sub>	150 A <sub>RMS</sub>	240 A <sub>RMS</sub> 180 A <sub>RMS</sub>	300 A <sub>RMS</sub>	360 A <sub>RMS</sub> 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 < 2969 W	< 3225 W	< 5323 W < 5813 W	< 6250 W	< 7925 W < 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 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 32 to 122 °F, up to 104 °F without derating				
DIMENSIONS (W × H × D)	405 × 2168 × 636 mm 15.9 x 85.4 x 25 inch		605 × 2168 × 636 mm 23.8 x 85.4 x 25 inch		805 × 2168 × 636 mm 31.7 x 85.4 x 25 inch
WEIGHT	335 kg / 739 lbs 351 kg / 774 lbs		472 kg / 1041 lbs 495 kg / 1092 lbs		609 kg / 1343 lbs 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 ADF P300-90/600-UL	ADF P300-220/480-UL ADF P300-180/600-UL	ADF P300-330/480-UL ADF P300-270/600-UL
COMPENSATION CURRENT CAPACITY AT 50/60 HZ	110 A <sub>RMS</sub> 90 A <sub>RMS</sub>	220 A <sub>RMS</sub> 180 A <sub>RMS</sub>	330 A <sub>RMS</sub> 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 < 2836 W	< 4835 W < 5547 W	< 7190 W < 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 32 to 122 °F, up to 104 °F without derating		
DIMENSIONS (W × H × D)	405 × 2168 × 636 mm 15.9 × 85.4 × 25 inch	605 × 2168 × 636 mm 23.8 × 85.4 × 25 inch	805 × 2168 × 636 mm 31.7 × 85.4 × 25 inch
WEIGHT	335 kg / 739 lbs 351 kg / 774 lbs	472 kg / 1041 lbs 495 kg / 1092 lbs	609 kg / 1343 lbs 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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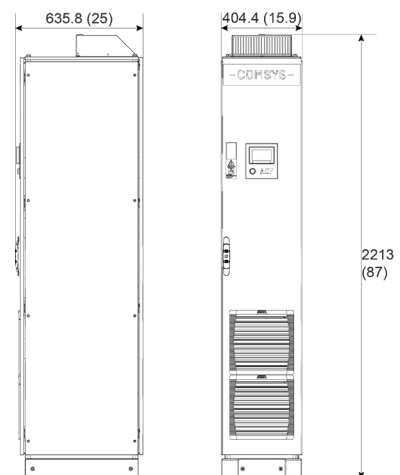
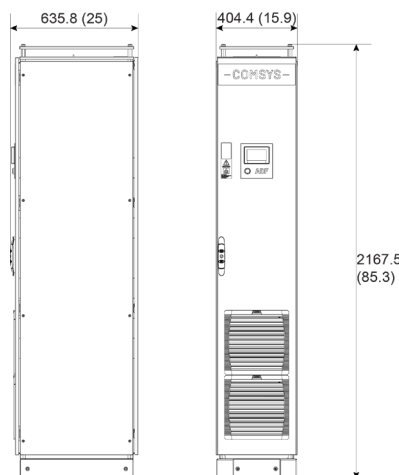
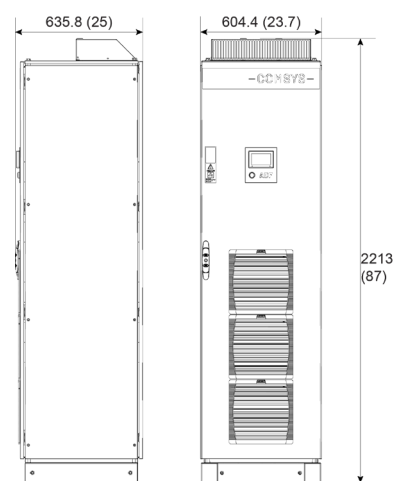
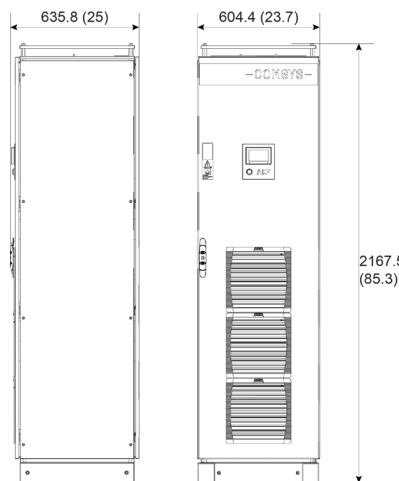
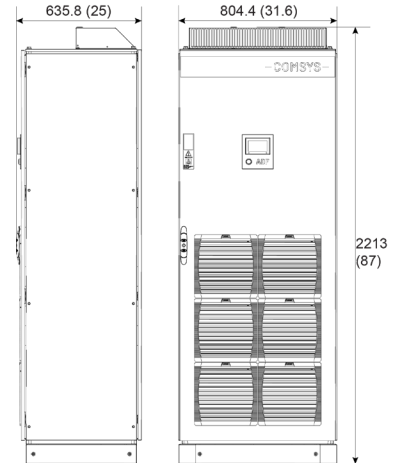
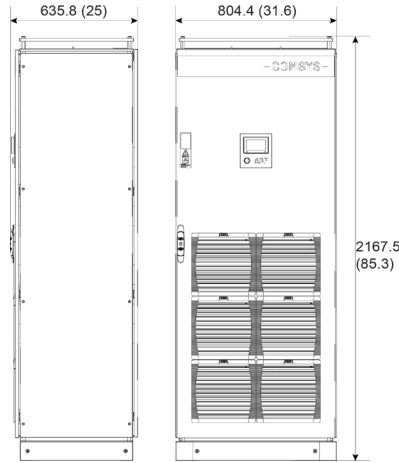
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# DIMENSIONS

mm (inches) IP22 cabinet

mm (inches) IP43 cabinet



Partner:



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