

# ADF

## P300W, 140 – 450 A Active Dynamic Filter



- High Performance and Reliability
- Water 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

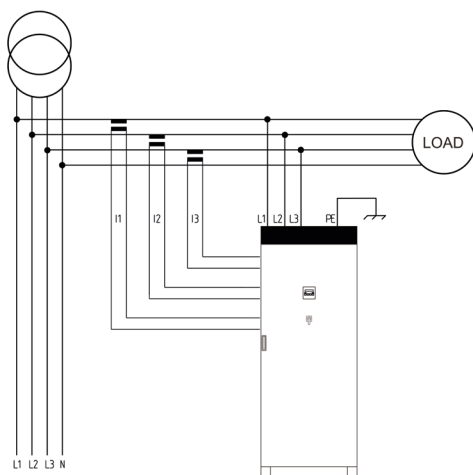
Model	ADF P300W-150/480 (ADF P300W-140/690)	ADF P300W-300/480 (ADF P300W-280/690)	ADF P300W-450/480 (ADF P300W-420/690)
Rated power *	104 / 125 / 146 / 168 kVA	208 / 250 / 291 / 335 kVA	312 / 375 / 437 / 502 kVA
Compensation current capacity at 50/60 Hz	150 A <sub>RMS</sub> (140 A <sub>RMS</sub> )	300 A <sub>RMS</sub> (280 A <sub>RMS</sub> )	450 A <sub>RMS</sub> (420 A <sub>RMS</sub> )
System voltage **	480 V (208 – 480 V), 690 V (480 – 690 V)		
Nominal frequency **	50/60 Hz ± 2 %		
Number of phases	3		
Connection type	3 phase without neutral (TN, TT, IT)		
Harmonic current compensated	individual compensation up to 49 <sup>th</sup> 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 water temperature		
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, UL***, cUL***		
Art no 480 V (690 V)	400 072-CE (400 056-CE) 400 072-NA (400 056-NA) 400 072-AM (400 056-AM)	400 073-CE (400 057-CE) 400 073-NA (400 057-NA) 400 073-AM (400 057-AM)	400 074-CE (400 058-CE) 400 074-NA (400 058-NA) 400 074-AM (400 058-AM)

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

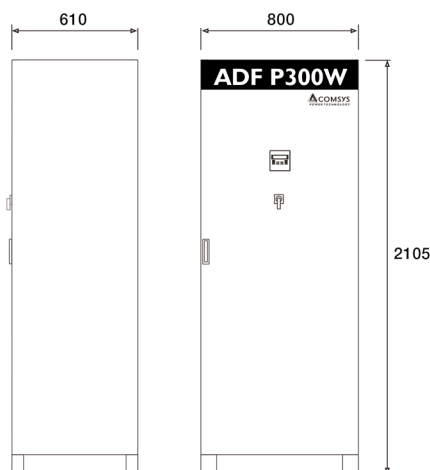
\*\* Please state your system voltage and line frequency when ordering

\*\*\* Available Q2 2013

## Connection Diagram (example)



## Dimensions (in mm)



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