

Competitor comparison EU/Asia



Description	Comsys ADF P300	Comsys ADF P200	ABB PQF	Schneider / SqD Accusine	Danfoss	Ablerex ES3x / Staco	Ablerex ESD34 / MTE	Schaffner	Comments
Compensation current < 480 V	100, 150, 200, 300, 450 A	100 A	30, 45, 60, 70, 80, 90, 100, 130, 150, 250, 450 A	50, 100, 300 A	190, 250, 310, 400 A	25, 50, 100, 150, 200 A	30, 60, 90, 120 A	30, 50, 60, 100, 120, 200, 250, 300 A	Wide current range in 400 V Systems
Compensation current 480 – 690 V	80, 140, 160, 240, 280, 420 A	-	100, 180, 320 A	-	-	-	-	-	Wide current range in 690 V Systems
Voltage Ratings	208 - 480 V 480 - 690 V	380 - 480 V	208 - 480 V 480 - 690 V	208 - 480 V	380 - 480 V	208 – 480 V	208 - 480 V	380 - 480 V	Only Comsys provides a System up to 690 V
Operating Frequency	50 or 60 Hz	50 or 60 Hz	50 or 60 Hz	50 or 60 Hz	50 or 60 Hz	50 or 60 Hz	50 or 60 Hz	50 or 60 Hz	Frequency insensitive
3-Phase, 4-Wire	Yes	No	Yes	Yes	No	Yes	Yes	Yes	3P/3W and 3P/4W available
Expandability	Yes (3 Modules and > 10 Units)	> 10 Units	Up to 4 Units	Up to 10 Units	Up to 4 Units	Up to 6 Units	Yes (4 Modules and 8 Units)	Up to 5 Units	Highest expandability on the market
Harmonic compensation order	49th	100th	50th	50th	40th	51st	51st	50th	Up to 100th harmonic for special cases
Reactive Power Compensation	Fix / Variable (0,5 cap – 0,5 ind)	Fix	Variable (0,6 cap – 0,6 ind)	Variable	Variable	Fix	Variable (0,7 cap – 0,7 ind)	Fix	Wide flexibility
Specified Harmonic Selection	Yes	Curve selectable harmonics	Yes	Yes / Global	Partly / Global	Yes	Yes	Yes	Target specific harmonics
Flicker Compensation	Yes	Yes	No	No	Yes	No	No	No	Perfect flicker solution
Resonance Elimination	No	Yes	No	No	No	No	No	No	Only filter with true resonance elimination including interharmonics
Load Balancing	Yes	Yes	Yes	No	No	No	Yes	No	Comsys only filter with fully flexible load balancing
Switching Frequency	7,3 kHz	Variable 2 - 15 kHz	N/A	20 kHz	Variable 1 - 18 kHz	20 kHz	N/A	16 kHz	Low switching frequency and variable frequency available
Response Time	< 1 ms	25 µs	40 ms	< 20 ms	< 0,5 ms	< 1 ms	< 20 ms	300 µs	Fastest filter on the market
Graphic Interface	Yes (Web)	Yes (Web)	Yes	Yes	No	Yes	Yes	Yes	Remote supervision with integrated web interface
Configuration Flexibility	High	High	High / Special Software needed	High	Low / Special Software needed	Low	Low	High / Special Software needed	Many configuration possibilities
Communication Interface	Ethernet / Can	Ethernet	RS232	Modbus	RS485 / USB	RS232	RS232 / USB	RS485 / Ethernet	Standard communication system. No software or extra hardware needed.
Liquid Cooling	Yes	Yes	No	No	No	No	No	Forced air cooled with liquid power electronics	Only Active Filter with liquid cooling