

Merus M-series Active harmonic filters

MODEL	M500	M1000
Rating of individual units	420A	820A
Nominal voltage	690V ±10%	960V ±10%
Harmonic performance	up to 31st harmonic – compliance with IEEE 519 and G5/4	up to 17th harmonic – compliance with IEEE 519 and G5/4
Rated frequency	50Hz or 60Hz	
Operating modes	All harmonics/All harmonics but not fundamental/Selective harmonics	
Response time	<< 1 ms / 1 cycle (selective mode)	
Switching frequency	8kHz	4kHz
Controller	Real time digital control with FFT	
Balancing capacity	100% * IN of active filter	
Neutral wire current	Not available	
3-Wire/4-Wire	3W	3W
Human-machine interface (HMI)	3,5" easy to use touch screen interface	
HMI languages	8 languages including English-German-Spanish-Chinese-Russian. Others on request.	
Monitoring	On-site and remote monitoring possibilities	
Reporting	Reports data of power quality events up to previous one month	
Communication	Ethernet / RS485, ModBus	
Cooling media	Air	Liquid
Protection degree	IP 21, IP 34 as an option	
Ambient temperature	40°C, without derating	
Humidity	Maximum 95% RH; non-condensing	
Power losses	< 3 %	< 2.3 %
Current transformers	3 pieces, secondary 5A or 1A, class 0,5 or better	
Weight	1160 kg	2180 kg
Cable entry	Bottom	Bottom
Noise	70dB	76dB
Dimension	1420 x 1100 x 2000	2150 x 1050 x 2460