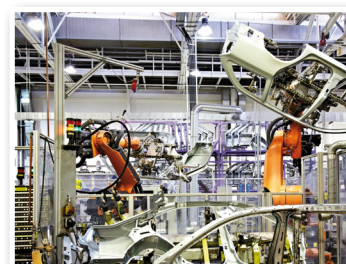
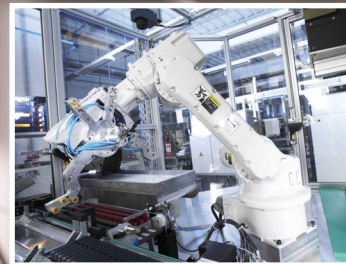


Active Harmonic Filters

Innovation made in Germany



POWER BALANCE

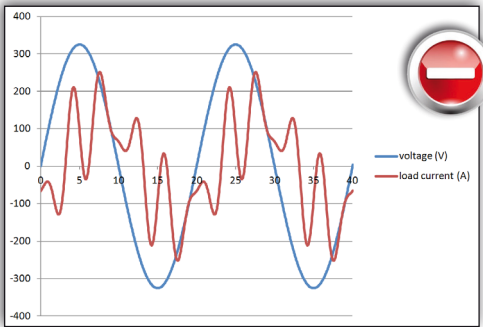
 active filter technology



Power Balance Series

Features

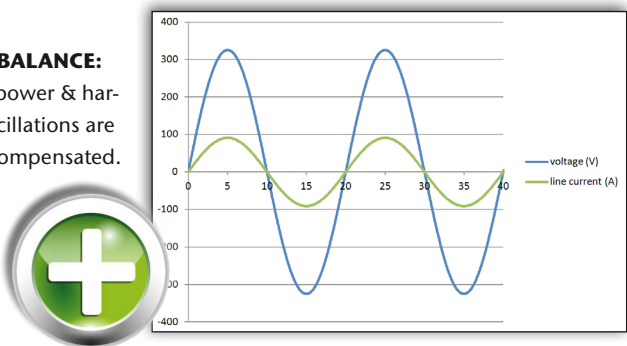
The PB-SERIES is an active harmonic filter system for tower buildings as well as automation, windturbine and various other industrial applications eliminating harmonic oscillations and consequently costs for reactive energy. The filter monitors the current signal and compensates for the unwanted elements of the measured current. Thus, the filter ensures a harmonic suppression independently of the number of loads. Furthermore the filter corrects the power factor, improving the systems' efficiency while reducing harmonic distortion.



Without POWER BALANCE:
Harmonic disturbances caused by e.g. non-linear loads.

With

POWER BALANCE:
Reactive power & harmonic oscillations are actively compensated.



Specifications

Input & Output Parameters

Connectivity	3 wire: 3 phase 4 wire: 3 phase + neutral load				
Phase compensation current	60A	120A	180A	240A	300A
Neutral lead compensation current	180A	360A	540A	720A	900A
Input voltage	3-wire: 200 V - 480 V ± 10% 4-wire: 200 V - 400 V ± 10%				
Frequency	50/60 Hz ± 3 Hz				
Switching frequency	24 kHz				
Harmonic compensation	Up to 50th harmonic, 50 active harmonic orders simultaneous selectable				
Power factor correction	Fully inductive and reactive current compensation from 0 to 100%				
Features	- Load balancing - Flicker compensation (caused by reactive current) - Reactive power compensation - Modular design - Parallel operation				

Overload current	150A	300A	450A	600A	750A
	@cf2.5	@cf2.5	@cf2.5	@cf2.5	@cf2.5
Current transformer	Source or Load side selectable, Primary current range 100 A – 2500 A, secondary current 1 A				
Maximum power losses (W)	450	900	1350	1800	2250
Weight 19" single unit	60 kg				
Dimensions 19" single unit	482 x 678 x 222 mm (W x D x H)				
Weight wall mount unit (60Amps)	96 kg				
Dimensions wall mount unit (60Amps)	504 x 290.5 x 979.5 mm (W x D x H)				
Weight wall mount unit (120Amps)	160 kg				
Dimensions wall mount unit (120Amps)	504 x 514.5 x 979.5 mm (W x D x H)				
Air flow rate	470 cfm	940 cfm	1410 cfm	1880 cfm	2350 cfm
Interface	Ethercat 100 Mbit/s, USB, Active sensor bus, Display bus				
Ambient temperature	-10°C to +40°C full performance, up to +55°C derating 2% / K				
Humidity	95% non condensing				



Modular System



60 Amps Rack

consisting of one module, 1 sensor unit & 1 display (optional)

120 Amp Rack

consisting of two modules, 1 sensor unit & 1 display (optional)

180 Amps Rack

consisting of three modules, 1 sensor unit & 1 display (optional)

240 Amps Rack

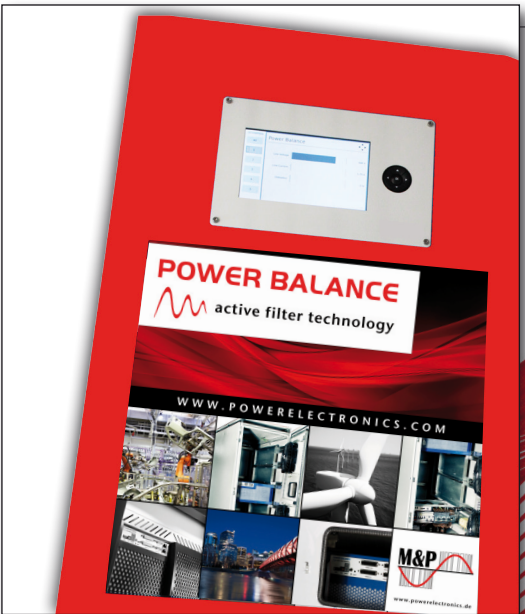
consisting of four modules, 1 sensor unit & 1 display (optional)

300 Amps Rack

consisting of five modules, 1 sensor unit & 1 display (optional)



Wall mount System

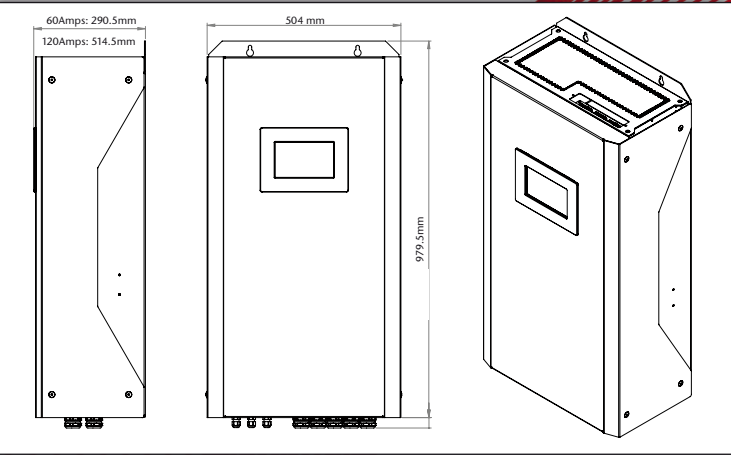


60 Amps Module (dimensional drawing below)

consisting of 1 module, 1 sensor unit & 1 display (optional)

120 Amps Module

consisting of 2 modules, 1 sensor unit & 1 display (optional)





7" or 12" service box

7" or 12" TFT display

Active sensor unit

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