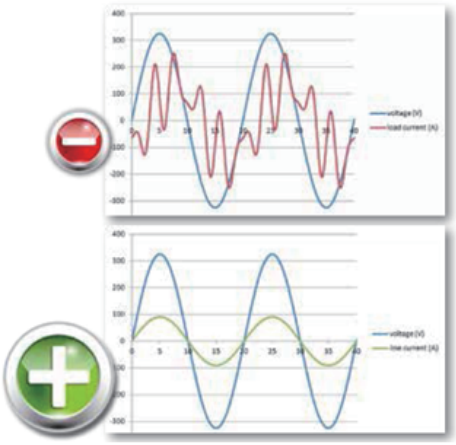
RESINE APC from 25 to 300Amps

The RESINE APC is an active harmonic filter system for large buildings as well as automation, wind turbine and various other industrial applications eliminating harmonic oscillations and consequently costs for reactive energy. The filter monitors the current signal & 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 system efficiency while reducing harmonic pollution.



Without RESINE APC:
Harmonic disturbances caused by e.g. non-linear loads

With RESINE APC:
Reactive power & harmonic oscillations are actively compensated

Harmonic Compensation

- Modular system 25A to 350A parallel-able
- Harmonic compensation for 3-wire and 4-wire technology
- Up to 50th harmonic each individually selectable
- Ultrafast reactive power compensation
- Flicker compensation
- Load balancing between phases and unload neutral wire
- Ethernet and RS485 system for interconnection

selection information

Selection information

RS ✱ ✱ ✱ ✱ ✱ ✱ ✱ ✱	
	Connection method
T3	3 phase, 3 wire system
T4	3 phase, 4 wire system
	System Frequency
X	50Hz
Y	60Hz
	Network voltage
A	173V
B	400V
C	480V
D	690V
	Phase current (Arms)
X	X=25; 50; 75; 100; 150; 200; 250; 300;350;
	Human interface
P	PQM
L	LCD
	Mounting
SM	Floor standing
WM	Wall mounting
	Communications
N	No communication
X	X: S2=RS232; S4=RS485; EN= Ethernet
	Suitable for use category
IN	Industry
EX	Exactitude equipment

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Specifications

Phase current (Arms)	25	50	75	100	150	200	250	300	350
Network voltage (Vrms)	173/400/480/690 ±15% VAC								
System frequency	50/60Hz ± 3Hz								
Reaction time	<500uS								
Response time Completion of Compensation	5 ms								
Weight（Kg）	75	95	125	250	300	380	450	500	550
Dimensions (W*D*H) (mm)	500X400X900			800X700X1800					
IP Protection	IP20 (Optional[1]: IP21/IP23/IP30/IP41)								
Digital control algorithm	• Selective Direct Control algorithm • Compensation up to 50th harmonic • Individually selectable degree of compensation								
Control functions	• Harmonic compensation • Reactive power compensation • Harmonic and Reactive power compensation								

[1] For other IP ratings please consult factory

Current transformer	Source or Load side selectable, Primary current range from 100A to 10000A, secondary current 1A or 5A
Ambient temperature	0~40℃(Sealing environment)，0~45℃(Open environment)
Storage temperature	-35~+65℃
Humidity	Maximum 95% RH, Non-condensing
Altitude	≤1000m
EMC Certification	EN55011,EN50082-2,EN61000-4-2,EN61000-4-3, EN61000-4-4,EN61000-4-5,EN61000-4-6,EN61000-6-2,GB/T17626.2,GB/T17626.12,GB/T17626.4,GB/T17626.5,GB/T17799.4
Harmonic Certification	IEC 1000-3-4, IEC519-2004, UK ER G5/3, JB/T 11067-2011，GB/T 14549

Human Interface

7" TFT LCD	7" TFT control unit
	• Input : 2 key navigation • Communication: Ethernet TCP/IP , RS485 • Interface: Digital I/O • Basic functionality: Parameter setting, Status indication, Monitoring, Alarm, Event logging