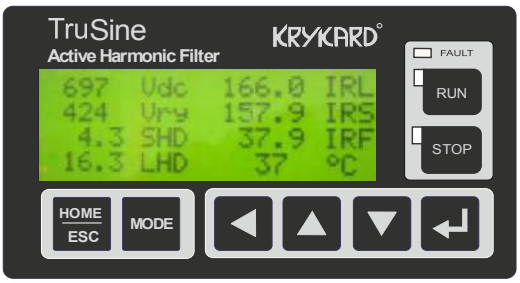
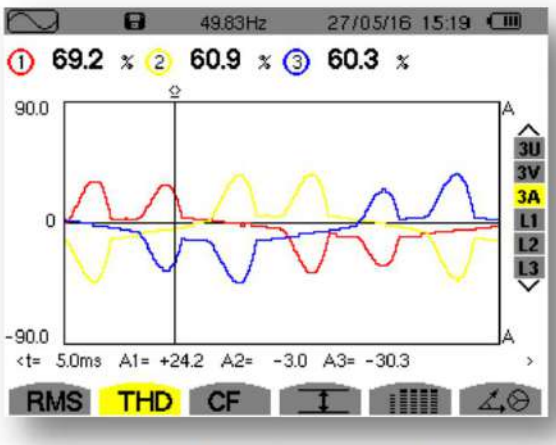
Advantages of KRYKARD TruSine AHF

- IGBT design and Digital Fast Fourier Transform based harmonic compensation helps eliminate harmonics from 3rd to 51st order
- Option to mitigate selective harmonics or global harmonics
- Automatic PF improvement up to the unutilized capacity of filter
- Ability to connect up to 40 units of different ratings in parallel; Master-Slave combination or Peer combination
- Harmonic attenuation up to 97% at rated current and prevents possible harmonic resonance
- Voltage independent harmonic current tracking for more immunity to input voltage distortion
- Inherent current limiting will prevent overload condition
- Option of 3ph 3 wire / 3ph 4 wire configuration; Option of 575V model

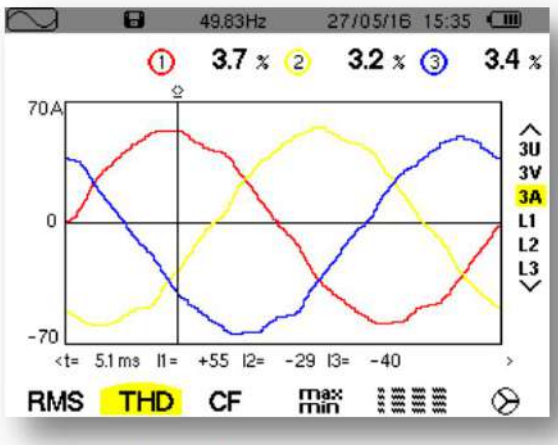
The key benefits that you would get by installing TruSine AHF are:

1. Avoid penalties from EB
2. Avoid machinery failures
3. Minimise tripping of switchgear
4. Increase Transformer & DG utilisation factors
5. Reduce Cable losses and failures
6. Avoid Capacitor Bank failures
7. Improve PF thereby reducing Demand





I-THD Before Harmonic filter



I-THD After Harmonic filter

The KRYKARD TruSine AHF helps you mitigate your harmonic problems comprehensively. With KRYKARD Portable Load Managers you can measure and analyse harmonics. With KRYKARD EMS System, you can integrate the AHF with the software and generate reports on harmonics.

TECHNICAL SPECIFICATIONS

KRYKARD®

Input power source	415 Vac, 3-Ph 3-Wire, 50 Hz						415 Vac, 3-Ph 4-Wire, 50 Hz				600 Vac, 3-Ph 3-Wire, 50 Hz			
	Voltage -15% to +10%, Frequency ±5%													
Filter current in each phase (Arms	30	60	100	150	200	300	60	100	150	200	100	150	200	220
Heat loss (Watt)	≤1200	≤2000	≤3000	≤5000	≤6100	≤7000	≤2100	≤3100	≤5150	≤6250	≤4300	≤6000	≤8000	≤8500
Control method	Digital Fast Fourier Transform with Hysteresis current control													
Harmonic filtering & Order selection	Harmonics orders up to 51st, Global / Selective compensation from 3rd to 51st order with settable amplitude													
Harmonic attenuation ratio	Better than 97% at rated current													
Response time	One cycle (20 ms)													
Digital inputs	5-Programmable sequence inputs, sink / source changeable													
Digital outputs	4-Programmable sequence outputs, open collector type													
Potential free contacts	3-Programmable relays with 1-NO, 1-NC for 5A @ 240 VAC, Programmable between 12 different options													
Programmable analog outputs	2-Programmable analog current outputs IO1 & IO2: 4 ~ 20mA													
Display and keypad module	4-Line LCD panel													
	THDv, Line frequency, DC bus voltage, PF, DPF, kW, kVA, kVAR, VL-L													
	Current of Filter / Load / Source side for each phase, I-THD of Load and Filter side													
Communication	RS-485 port with Modbus-RTU protocol													
Protective functions	Over current		DC bus over voltage				Phase loss				Charging fault			
	Adjustable over current		DC bus under voltage				Ground fault				EEPROM fault			
	Timed over current		Over temperature				External fault				CT Detection fault			
Fault history	Last ten faults - with status at time of fault - are stored in memory													
Electronic thermal overload	120% overload for 60 seconds, above 100% harmonic current is limited by software													
Installation location	Indoor													
Type of cooling	Ambient temperature						Storage temperature							
Forced air cooling	0°C ~ 40°C						-20°C ~ 70°C							
Model derating with temperature	Above 40°C, derate the output current by 3% /1°C Maximum up to 55°C temperature													
Humidity	0 ~ 95% maximum, non condensing													
Protection class / colour	IP 31 (optional - higher protection requirements) / RAL 7035													
Dimensions	A	A	B	B	C	C	B	B	B	C	B	C	C	C
Approximate weight in kg [lb]	80 [176.4]	90 [198.4]	272 [599.6]	280 [617.3]	350 [771.6]	430 [948]	251 [553.4]	280 [617.3]	320 [705.5]	422 [930.3]	275 [606.3]	360 [793.7]	470 [1036]	470 [1036]
Installation	A = Wall/Floor mounting, B, C = Floor mounting													
Dimensions (W X DX H) in mm	A = 480 X 370 X 1065						B = 600 X 600 X 1960				C = 800 X 600 X 2160			
Harmonic – Reference Standard	IEEE 519-1992, G5/4-1, GB/T 14549-93, IEC 61000-3-2, IEC 61000-3-4													
Safety	IEC 50178													

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Revision: June 2017. Specifications are subject to change without prior notice.