

# Product Catalog



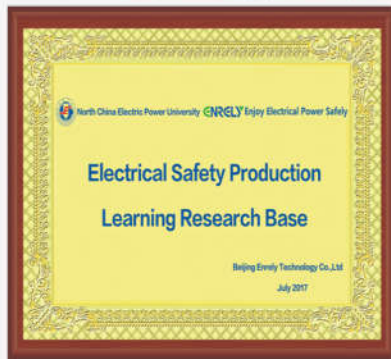
**Beijing Enrely Technology Co.,Ltd**



## Company profile

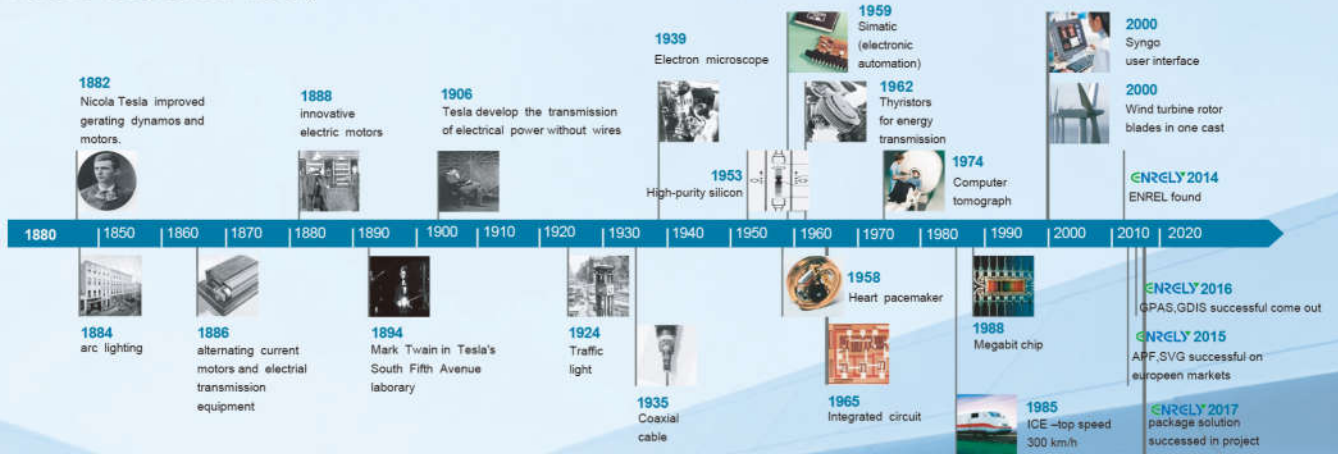
ENRELY serves at once as an innovator on power safety pioneering technologies and the business models developed with the deep-seated needs and wants of global customers, it has been the fundamental part of success of ENRELY.

- ❖ As a Hi-tech innovator, Enrely is dedicated to develop new technology in domain of electrical power safety. the all round defense system solution with ground potential counterattack defense, fault arc pre-warning, three-phase unbalance adjustment, reactive power compensation, harmonic filtering and low voltage control.
- ❖ As a reliable provider, Enrely's technology and innovation strategy improves the level of electrical safety in system, and solves this problem.
- ❖ As a partner, Enrely cooperates closely with leading universities and innovative and excellent business partners worldwide and makes new technologies, cross-domain platforms and product modules available. We already exported to overseas markets including EUROPE, AUSTRALIA, and KOREA.
- ❖ As a trustworthy service provider, Enrely always believes that a all-round safety system that need a keeping-research and development services, protects. and offers advice on improving processes and business practices for all partner.
- ❖ As an employer, Those who work at Enrely are more than just employees: they make an active contribution to improving peoples' lives little by little every day. Experts from all over the world and from a wide range of disciplines value Enrely as an employer.



## ◆ Our milestones and electricity technology development

Across 130 years of history



## ◆ Our innovative power in figures

Expenditures for research and development - our greatest strength



**34% occupied in total benefit**

Expenditures for R&D-34% occupied in total benefit more than in fiscal 2016

**Inventions and patents - securing our future**



**97**

inventions



**30**

patent applications



**40**

R&D employees

**University cooperations - our knowledge edge**



**8**

CKI



**4**

principal partner universities

## ◆ Our innovative power in figures

Expenditures for research and development - our greatest strength



Active Harmonic Filter



Static Var Generator



Ground Potential Attack Suppressor



Ground Distribution Interfere Suppressor



ISO 9001

# Our areas of activity

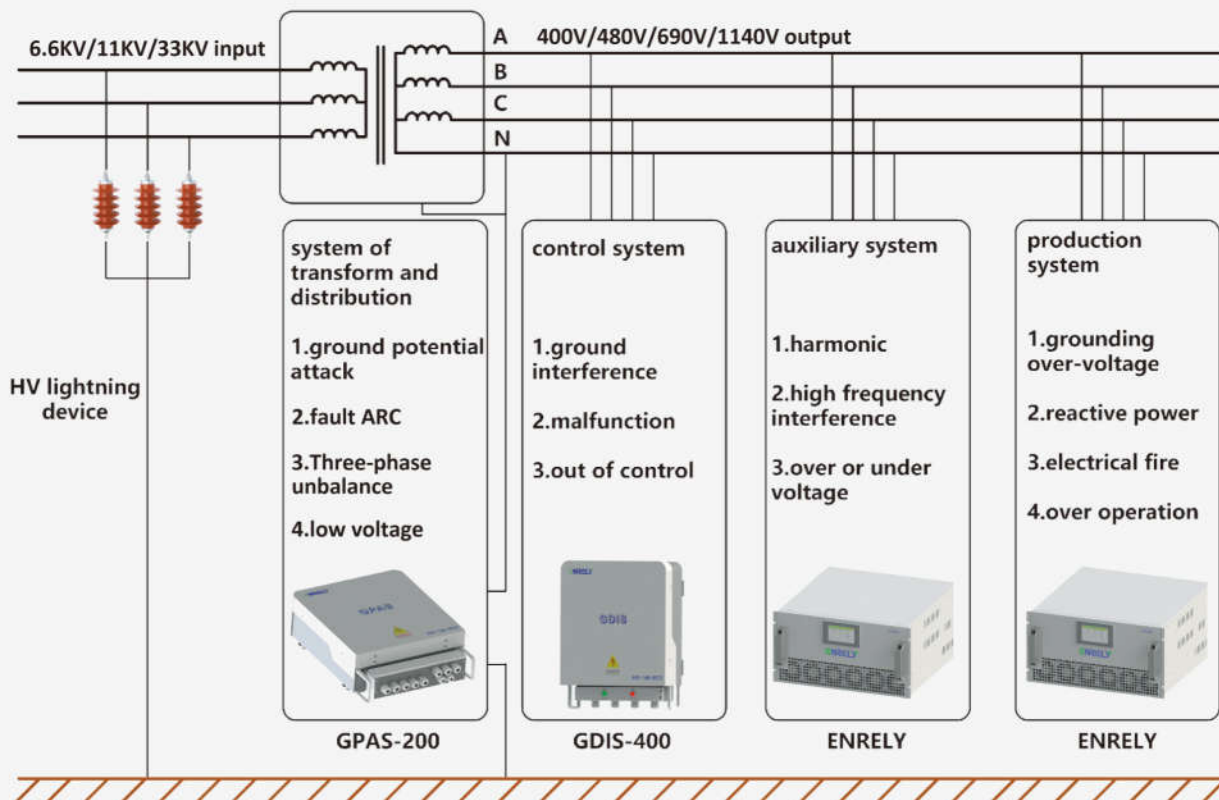
Innovative Technology for Enrely's comprehensive solution of power quality in many functions, including technology and innovation strategy, research and development, cooperation with universities and business partners, patents and business excellence.

## ◆ Our solution areas

A short overview of important fields of activity

Electrical fire	Lightning 2ndary damage	Harmonic pollution	Control-system interference	System insulation aging
Early warning when small fault arc happen before accident with accurate monitoring	Suppressing overvoltage attack when ground potential rising	Mature-Tech continuous R&D and corperating with new technology teams.	Overcoming various interference from supply, ground and signal.	Prolong lifespan of devices and wires of system through anti-aging of insulation layer.
Over-loading	Reactive power	Grounding over-voltage	Loading voltage not meet load.	Secondary accident
Balance 3-phase load and sharply reduce the neutral line current	Providing top- quality static var generator to regulate voltage and reactive power	Defensing the equipment against over-voltage caused by lightning and accidental arc.	Avoid high voltage at low load and it at contrary.	Obviously reduce the risk of fire and exposure by electrical factors

## ◆ Our areas of activity: Innovative strategy



## ◆ The Consequences of Poor Power Quality

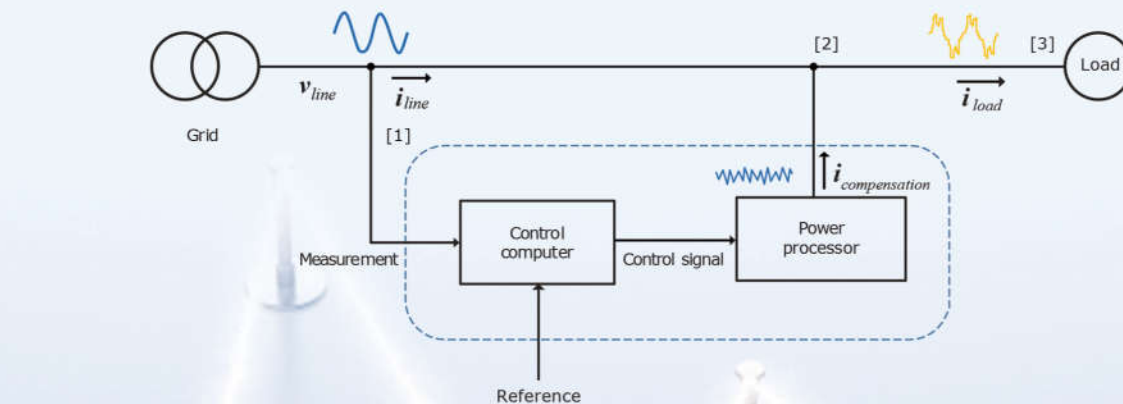
When optimizing processes to mitigate interruptions to production or quality issues, power and power quality are often overlooked issues. Some common direct impacts of poor power quality are:

- Reduced production speed
- Increased energy consumption
- Charges for reactive power consumption
- Lost production
- Equipment damage
- Idling personnel
- Decreased equipment lifetime
- Data loss
- Rework
- Start up costs

In addition to the direct impacts above, poor power quality often negatively impacts business costs. Such as with:

- Poor reputation among customers
- Loss of market share
- Postponed revenues
- Reduced cash flow

## ◆ What to expect with GreenSine Active Harmonic Filter?



Reference

LOAD CURRENT



Green Sine  
COMPENSATION  
CURRENT



LINE CURRENT



There are several benefits of reducing harmonics and disturbances in the electrical network.

- Lower network utilization
- Lower losses in the transformer
- Prolonged equipment lifetime
- Standard compliance
- Increased operational efficiency by avoiding unplanned stops
- Noise reduction
- Elimination of pulsating torque

# Enrely Products portfolio



## ◆ Active Harmonic Filter–GreenSine

### Overview

GreenSine has small size format : the dimension 500\*520\*(190–270)/660\*660\*270, make it more economic , more simple ,and more effective.

### Function

- Fast compensation mode with harmonics (1st – 50th)
- Devices available for 3–wire as well as 3–wire +neutral (4–wire)
- Priority settings for harmonics and /or fundamental reactive compensation .
- Total power factor can be forced to COS 1
- Excellent dynamics :response time  $\leq 10\mu s$
- Multiple CT–circuits (open loop, closed loop, CT–additions.etc)

### Feature

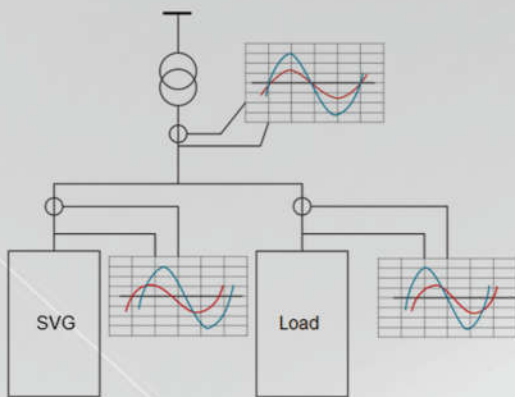
- Standards enclosure format system , according to IP20 or IP21 ,EN50178 ,EN61000–6–2/–4
- Modular construction
- Power adaption by increasing the number of modules
- Simple installation

Item	GreenSine 400-50	GreenSine 400-100	GreenSine 400-135	GreenSine 600-50	GreenSine 600-100
Current rating	50A	100A	135A	50A	100A
Voltage level	380V, 440V, 480V			600V, 660V, 690V	
Voltage range	-20%~+15%				
Frequency	50/60Hz±5%				
Phases	3 phase 3 wire, 3 phase 4 wire				
Response time	$\leq 10\mu s$				
Parallel operation	Unlimited, Max 6 modules for one SAM controller				
Overload capability	110%, 1 minute				
Efficiency	$\geq 97.5\%$				
CT location	Grid side or Load side				
Function	Harmonics, reactive power, unbalance compensation				
Harmonics	Up to 50 <sup>th</sup> order				
Communication	Modbus, TCP/IP, IEC61850, others upon request				
Dimension(W×D×H) for rack type (mm)	500×520×190		500×520×270		660×660×270
Weight for rack type (kg)	40	45	56	60	75
Dimension(W×D×H) for wall type (mm)	500×220×660		500×280×660		660×280×760
Weight for wall type (kg)	45	50	58	62	78
Color	RAL7035 (Light Gray), others upon request				
Cooling	Smart forced air (Variable fan speed & IGBT temperature)				
Noise	$\leq 70dB(A)$				
Protection class	IP20 or IP21 according to IEC529, others upon request				
Installation location	Indoor				
Altitude	$\leq 1500m$ , capacity derating in case of limit exceeded				
Relative humidity	Max 95%, non-condensing				
Storage temperature	-25°C~+75°C				
Applied Standards	EN50178, EN61000-6-2, EN61000-6-4				

## ◀ What is Static Var Generator?

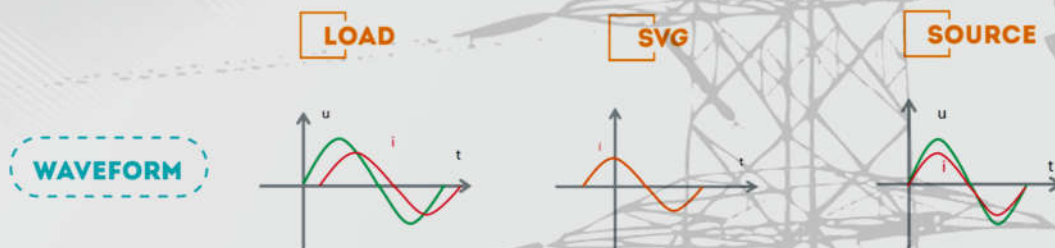
Static Var Generator systems are based on VSC (voltage source controller) technology and usually custom-made for a specific case or installation. SVG devices are connected in shunt or parallel to the load.

SVG is usually installed to support electricity networks that have a poor power factor and often poor voltage regulation. SVG is the best solution often deployed by utilities or large operations to solve flicker, harmonic and dynamic reactive compensation problems.



## ◀ What is Static Var Generator?

- Enhanced reliability
- Improved voltage
- Power system stabilization
- Rapid response to system events
- Real and reactive power flow control
- Increased power transfer limits



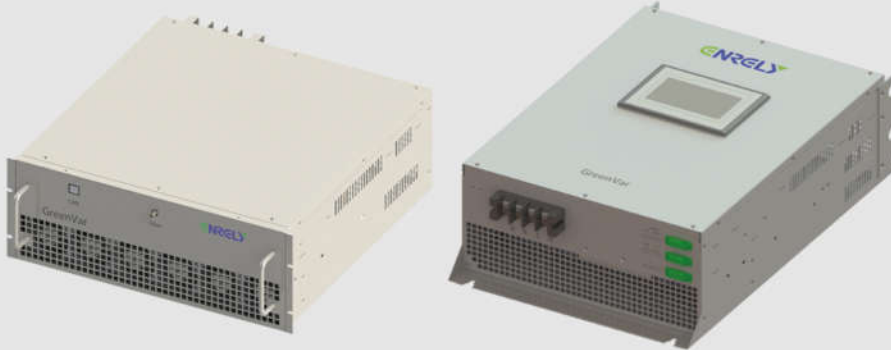
## ◀ Economical Benefits

- Reduced production disturbances
- Lower energy costs
- Increased equipment lifetime
- No penalty charges for reactive power or harmonic distortion
- Increased network capacity and therefore reduced investment costs
- Lower operating costs
- May release governmental tax reliefs

## ◀ Environmental Benefits

- Lowered CO2 emissions
- Competitive advantage through good citizenship image
- Reduced product lifecycle environmental impact
- Increased equipment lifetime
- Reduced energy consumption
- Smaller network dimensioning

# Enrely Products portfolio



## Static Var Generator-GreenVar

### Overview

GreenVar is very similar to that of GreenSine has small size format : the dimension 500\*520\*(190-270)/660\*660\*270/660\*280\*660, make it simple installation and save space in compact room.

### Function

- Multifunctional :Reactive power and imbalance compensation
- Excellent reactive compensation :stepless and accurate compensation
- Perfect load imbalance correction and compensation
- Gain high stability :infinite impedance to grid , avoids harmonic resonance problem
- Excellent dynamics :fast response time  $\leq 1\text{ms}$
- Modular design and easy expansion
- More compact for easy installation and maintenance
- Optional active filtering setting

### Feature

- Standards enclosure format system , according to IP20 or IP21 ,EN50178 ,EN61000-6-2/-4
- Modular construction
- Power adaption by increasing the number of
- Simple installation

Item	GV400-50	GV400-100	GV60-50	GV60-100
Capacity rating	50kvar	100kvar	50kvar	100kvar
Voltage level	380V, 440V, 480V		600V, 660V, 690V	
Voltage range	-20%~+15%			
Frequency	50/60Hz±5%			
Phases	3 phase 3 wire, 3 phase 4 wire			
Response time	≤1ms			
Parallel operation	Unlimited, Max 6 modules for one SAM controller			
Overload capability	110%, 1 minute			
Efficiency	≥97.5%			
CT location	Grid side or Load side			
Function	Reactive power, unbalance and harmonic compensation			
Harmonics	Max 30% filtering capability (up to 13 <sup>th</sup> order)			
Target power factor	-1.0~+1.0, upon customer request			
Communication	Modbus, TCP/IP, IEC61850, others upon request			
Dimension(W×D×H) for rack type	500×520×190mm	500×520×270mm	660×660×270mm	
Weight for rack type	48kg	60kg	62kg	78kg
Dimension(W×D×H) for wall type	500×220×660mm	500×280×660mm	660×280×760mm	
Weight for wall type	52kg	62kg	65kg	80kg
Color	RAL7035 (Light Gray), others upon request			
Cooling	Smart forced air (Variable fan speed & IGBT temperature)			
Noise	≤70dB(A)			
Protection class	IP20 or IP21 according to IEC529, others upon request			
Installation location	Indoor			
Altitude	≤1500m, capacity derating in case of limit exceeded			
Relative humidity	Max 95%, non-condensing			
Storage temperature	-25°C~+75°C			
Applied Standards	EN50178, EN61000-6-2, EN61000-6-4			



## ◀ Voltage Sag Corrector—VAAS



The VAAS( voltage automatic adjustment system ) is a kind of voltage sag corrector/active voltage conditioner which use different solution developed by Enrely company. It can prevent cost loss due to voltage sag in semiconductor, pharmaceutical and other power-critical manufacturing applications.

The VAAS can cut off voltage sag power source for short time, typically 1~3s, and supply power to load during the voltage sag moment. It can support power supply, adjust the voltage sag, adjust and the voltage raise, eliminate the load reference and provide real time monitoring of fault arc.

## ◀ How does the voltage sag happen



Weather reason

The voltage sag could be caused by lightning strike, rainstorms, fresh gale and snow.



Accident

The voltage sag could be caused by impact of vehicle, building work, incorrect operation and animals.



Others

The voltage sag could be caused by big capacity motor start, short circuit fault, source switch and distribution system equipment failure.

## ◀ The effects of voltage sag

- ❑ If voltage drop to 60% and keep the sag for more than 12 waveforms, the computer system will lost data and inner program will be disorder.
- ❑ If the work voltage was lower than 85% of system rated voltage, the chip tester will stop work.
- ❑ If the work voltage was lower than 50–80% of system rated voltage. The PLC program will stop work.
- ❑ If the voltage drop to 70% or 90% of rated system voltage, and keep more than 6 waveforms, the speed controller will be switch out for safety.
- ❑ For some high accuracy equipment, if the voltage drop to lower than 90% of rated voltage, and keep 2–3 waveform. The contact will release.
- ❑ For motor contactor, if the voltage drop to lower 50%, and keep more than 1 waveform, the contactor will release. If the voltage drop to lower than 80% of system rated voltage, the cooling motor will stop work.

- ❑ The voltage sag will caused:



Personal safety trouble



Accident of production



Cost loss of enterprise



Waste material increase



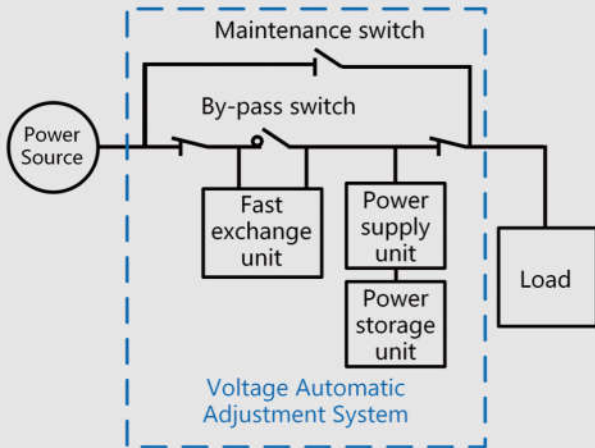
Damage of equipment



More maintenance work

# Enrely Products portfolio

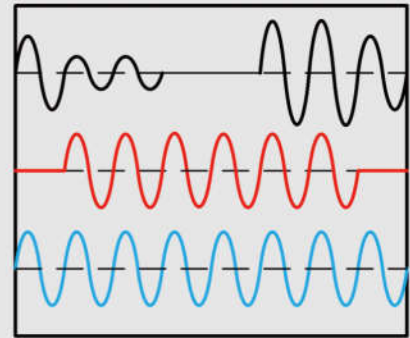
## Work Principle



Power Voltage

VAAS voltage

Load voltage



## Features

- Respond time is less than 2ms
- Maximum Output duration time is 3s (others upon request)
- Voltage accuracy is 1%
- Parallel installation
- Easy extend

## Size of product

kVA	10	25	50	75	100
220V	A	A	B	C	C
380V	A	A	B	C	C

A(W×D×H): 500mm×520mm×270mm  
 B(W×D×H): 500mm×520mm×400mm  
 C(W×D×H): 800mm×800mm×1000mm

kVA	150	250	500	750	1000	1250	1500	1750	2000
400V	E	E	2×E	3×E	4×E	5×E	6×E	7×E	8×E
690V	E	E	2×E	3×E	4×E	5×E	6×E	7×E	8×E

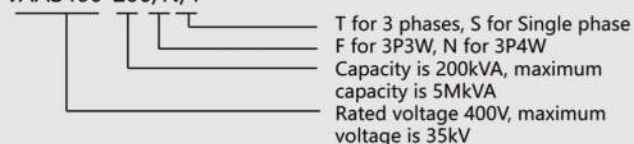
E(W×D×H): 800mm×800mm×2200mm

## Specification

Item	Parameters
Rated voltage	208/400/480 V
Voltage range	0~120%
Phase	3 phase 3 wire or 3 phase 4 wire
Frequency	50/60 Hz
Output rated voltage	208/400/480 V
Minimum output voltage	90% rated voltage
Overload capability	120%
Output impedance	2%
Fault capacity	150%
Total operation efficiency	99%
Storage method	Ultra capacitor
Duration time	3s
DC rated voltage	750 V
Load power factor	-0.95~0.95
Crest factor	2
Temperature	-5°C~40°C
Humidity	<95%
Cooling	Air cooling
Protection class	IP20 (others upon request)
Pollution rating	II (others upon request)
Noise level	65 dB

## Model number information

VAAS400-200/N/T



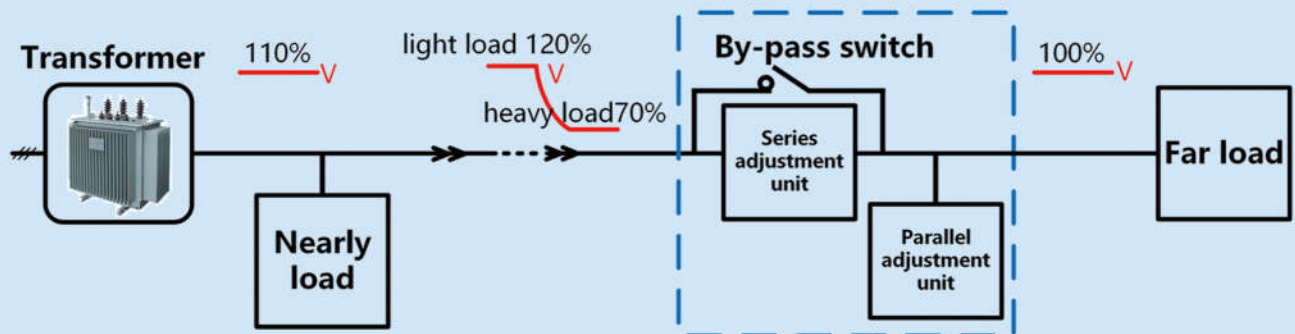
## ◀ Voltage Fluctuation Onsite Solution-VFOS

The VFOS (Voltage Fluctuation Onsite Solution) is developed for purpose of solving the light load fake voltage on the end of line, and raise the voltage for heavy load.

Also it can adjust the over voltage and voltage sag, eliminate the load reference and monitoring the fault arc by real time.

## ◀ Application introduction

The VFOS is installed at the end of low voltage line, use DSP to execute real time control, detect the input voltage by real time ( end line beginning voltage), adjust output voltage by electro components.



## ◀ Size of product



## ◀ Specifications

Item	Parameters	Parameters
	Three phase	Single phase
Input voltage rang	260V-460V	150V-260 V
Rated Output Voltage	380V	220V
Output accuracy	less than 2%	
Output capacity	50kVA 100kVA 150kVA 200kVA	

## ◀ Model number information

VFOS400-100/N/T

- T for 3 phases, S for Single phase
- F for 3P3W, N for 3P4W
- Rated capacity is 100kVA, Maximum is 1000kVA
- Rated voltage is 400V, 690V, 1140V

# Enrely Products portfolio

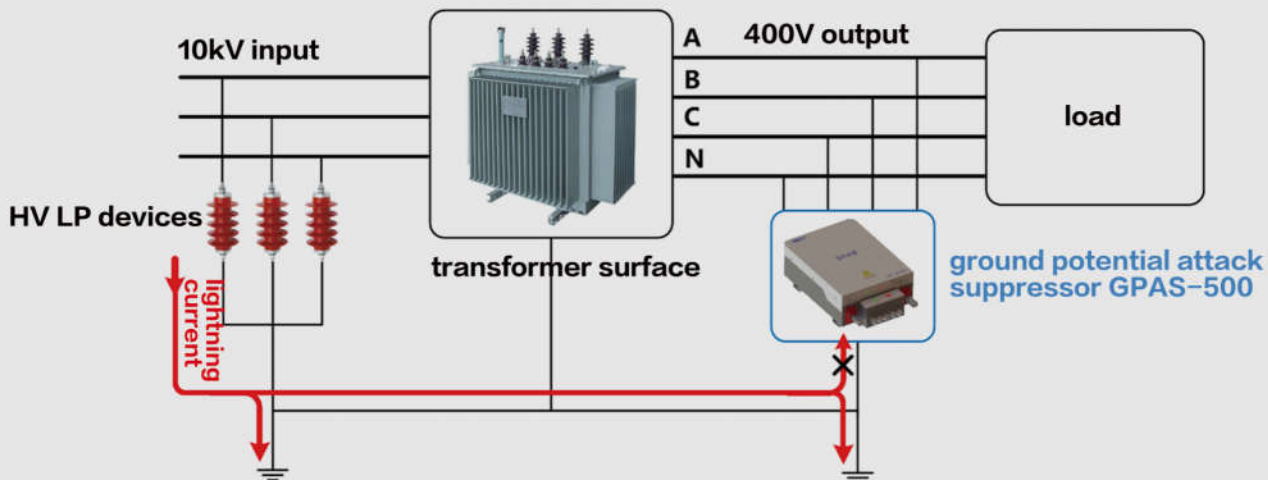
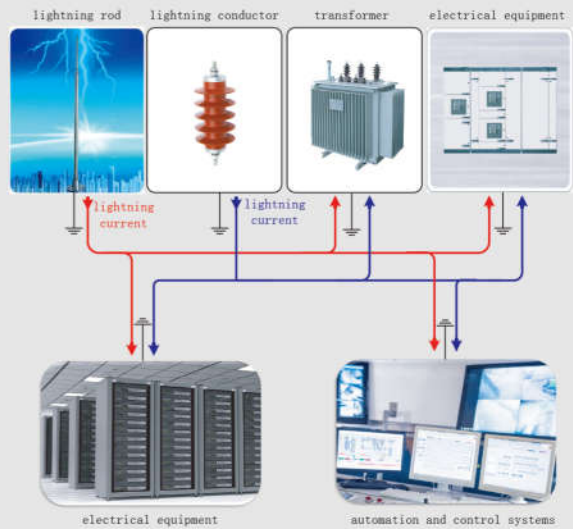
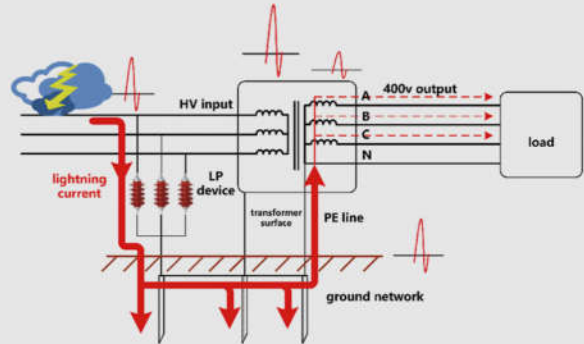
## ◆ Ground potential attack

The major of electronics damage from lightning strikes. The most damages is not caused by direct lightning strikes, but is the result of Ground potential attack, When a lightning strike directly on a building or facility with LPS(lightning protection system includes lightning rods, metal conductors and ground grid ) , the ground potential can be raised to thousands of volts during microseconds.

The lightning currents from the various parts of the ground to the power supply system and a variety of network signaling systems,in order to attack and destroy electronic equipment. This attack will expand the damage of large-scale equipment in the form of electromagnetic wave along the Neutral line and the ground point.

There is a risk that sparks may be induced at high potentials in non-bonding lead circuits with equal potential. When the ground potential attacks make the grounding of each device to have high potential at the same time.

If the device is not connected to ground or the grounding of equipment is not good, As result , not only the device will get breakdown, but also the equipment operator will be hit by electric shock!



The solution must block the lightning current path into the transformer secondary winding, so that it ensure that the lightning current or other strong interference current flows into the grounding grid in order to make sure the safety of the transformer and secondary equipment.



An active lightning protection device that combines ground potential attack suppression and fault arc defense.

It can significantly reduce lightning damage, Arc damage and destruction of the equipment through suppress the ground potential counter-attack .

## ◆ Ground Potential Attack Suppressor-GPAS

### Overview

Gpas is with easy way to use in size format : the dimension 500\*520\*(190-270)/660\*660\*270/660\*280\*660, make it simple installation and save space in compact room.

### Function

GPAS barrier the lightning current to flow into the secondary winding path of transformer, so that to utmost all the lightning current or other strong interference current flows into the grounding grid, protect the transformer and secondary equipment and keep the electrical system safe.

GPAS can accurately and quickly detect the fault arc in the system, early-fire warning and protection and greatly reduce the fire accident.

### Feature

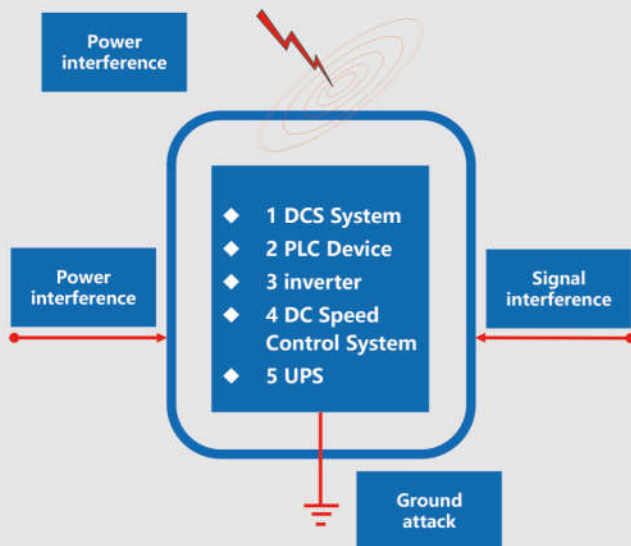
- Effective work in circuit of the grounding, series and parallel arcing series and parallel arcing
- Fast detection time:  $\leq 200\text{ms}$
- Dynamic detection accurately
- Transit signal to control action of output switch.
- Alarming with sound and light display
- Complete communication protocol according to individual equipment



Item	GPAS-500	GPAS-200
Rated voltage	400VAC, 690VAC, 1140VAC	
Voltage range	-20%~+15%	
Frequency	50/60Hz $\pm 5\%$	
Maximum Blocking Voltage	25kV (8/20us)	
Maximum flow rate	120kA (8/20us)	
Phases	3-phase 3-wire, 3-phase 4-wire	
Maximum continuous grounding current	40A	20A
Ground voltage attack suppression ratio	>50%	
Ground lightning current suppression ratio	>50%	
Response time	<25ns	
Fault arc detecting time	120ms under 50Hz 100ms under 60Hz	
hot redundancy	yes	no
Bypass	yes	no
losses	<60W	
Communication	Modbus, TCP/IP, IEC61850, others upon request	
Dimension (W×D×H) mm	500×520×190	500×520×190
Weight (kg)	20	15
Color	RAL7035 (Light Gray), others upon request	
Cooling	Natural air cooling	
Noise	$\leq 60\text{dB}$	
Protection class	IP54 according to IEC529, others upon request	
Installation location	Outdoor, Indoor	
Altitude	$\leq 1500\text{m}$ , capacity derating in case of limit exceeded	
Relative humidity	Max 95%, non-condensing	
Storage temperature	-25°C~+75°C	
Applied Standards	IEC60364-5-534, IEC62305-4, IEC61643-11, IEC61643-12, IEC61643-21	

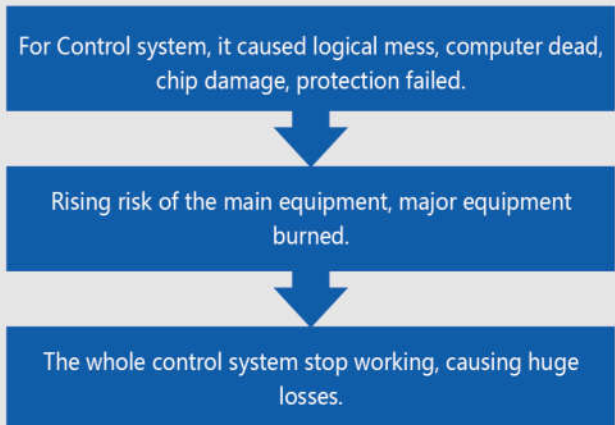
# Enrely Products portfolio

## ◀ Interference

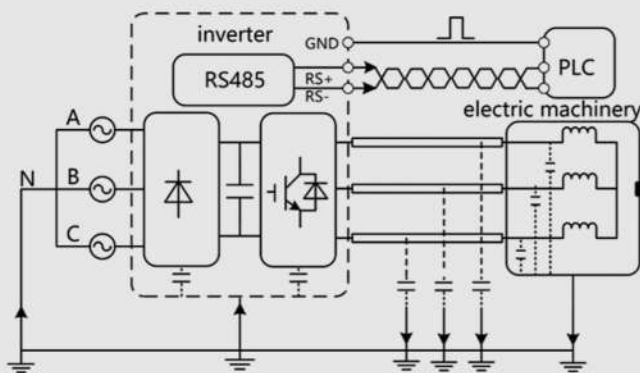


Grounding connection protect equipment , but provide a path of grounding attack .

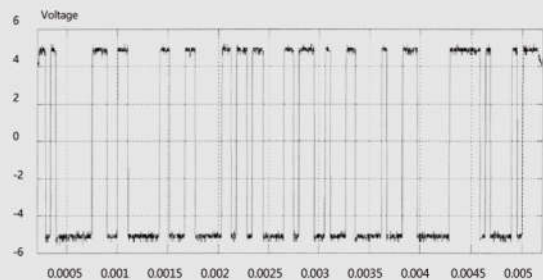
## ◀ Interference results



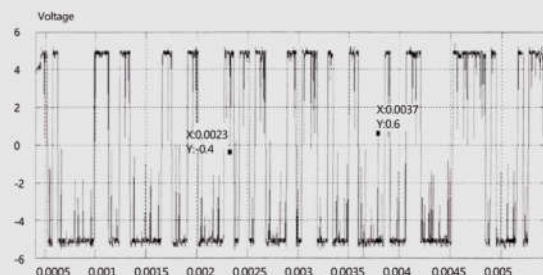
## ◀ Interference VFD



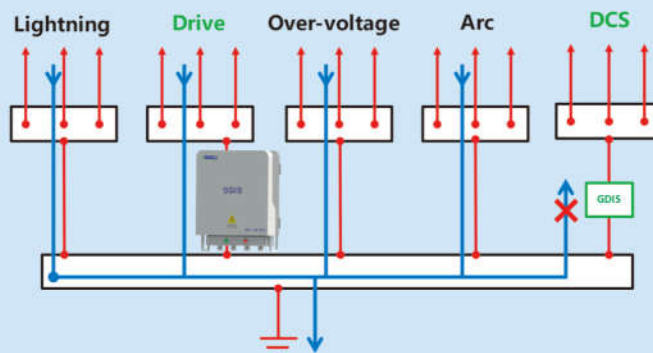
The common mode current coupled on the amplitude on the communication line, the error rate of the communication is rising with it .



When at 2.5MHz, amplitude is lower than 55.7dBuA, the error rate of PLC communication is 0%.



When the amplitude is higher than 110.5dBuA, the error rate reaches 90%.



## ◆ Ground Distribution Interference Suppressor-GDIS

GDIS is designed for protecting DCS ( distributed control system ) and PLC (programmable logic controller), it broadly heightens the safety of important control system through suppressing interruption derived from ground potential rising.

It is suitable for the key sensitive control equipment (such as DCS, PLC) in continuous production process, effectively preventing the high frequency interference of the ground network, suppressing the secondary equipment interference caused by ground potential counterattack, ground overvoltage, etc., reduce the risk of comprehensive automation control system, Instrument malfunction and measurement error.

Effectively isolate network interference, reduce the risk of interference with the control system, prevent unplanned stop due to a local power outage and serious catastrophes such as a fire explosion by a secondary accident.

### Overview

GDIS designed to small size format : the dimension 500\*520\*(190-270)/660\*660\*270/660\*280\*660, make it simple installation and save space in compact room.

### Function

- GDIS prevents that micro-current or voltage pollute the grid through the path of ground.
- GDIS decline the radiation of electromagnetic
- GDIS suppresses the interruption caused by complex factors.

### Feature

- Standards enclosure format system , according to IP20 or IP21 ,EN50178 ,EN61000-6-2/-4
- Modular construction
- Power adaption by increasing the number of
- Simple installation



Item	GDIS-400
Rated voltage	400VAC, 690VAC, 1140VAC
Voltage range	-20%~+15%
Frequency	50/60Hz±5%
Damping frequency range	1kHz~30MHz
Maximum Blocking Voltage	25kV (8/20us)
Maximum flow rate	120kA (8/20us)
Maximum continuous grounding current	20A
Ground voltage attack suppression ratio	>50%
Ground interference current suppression ratio	>50%
Response time	<25ns
DC resistance	<0.01Ohm
AC resistance	<0.30hm
losses	<60W
Communication	Modbus, TCP/IP, IEC61850, others upon request
Dimension(W×D×H) mm	500×520×190
Weight (kg)	10
Color	RAL7035 (Light Gray), others upon request
Cooling	Natural air cooling
Noise	≤60dB
Protection class	IP54 according to IEC529, others upon request
Installation location	Outdoor, Indoor
Altitude	≤1500m, capacity derating in case of limit exceeded
Relative humidity	Max 95%, non-condensing
Storage temperature	-25°C~+75°C
Applied Standards	IEC61000, CISPR11, CISPR18, CISPR23

# Enrely Products portfolio

## ◆ Electrical Safety Supervisory System-ENRELY-ESSS

Electrical Safety Supervisory System ENRELY-ESSS is a system can monitor the real time electrical safety for customer.

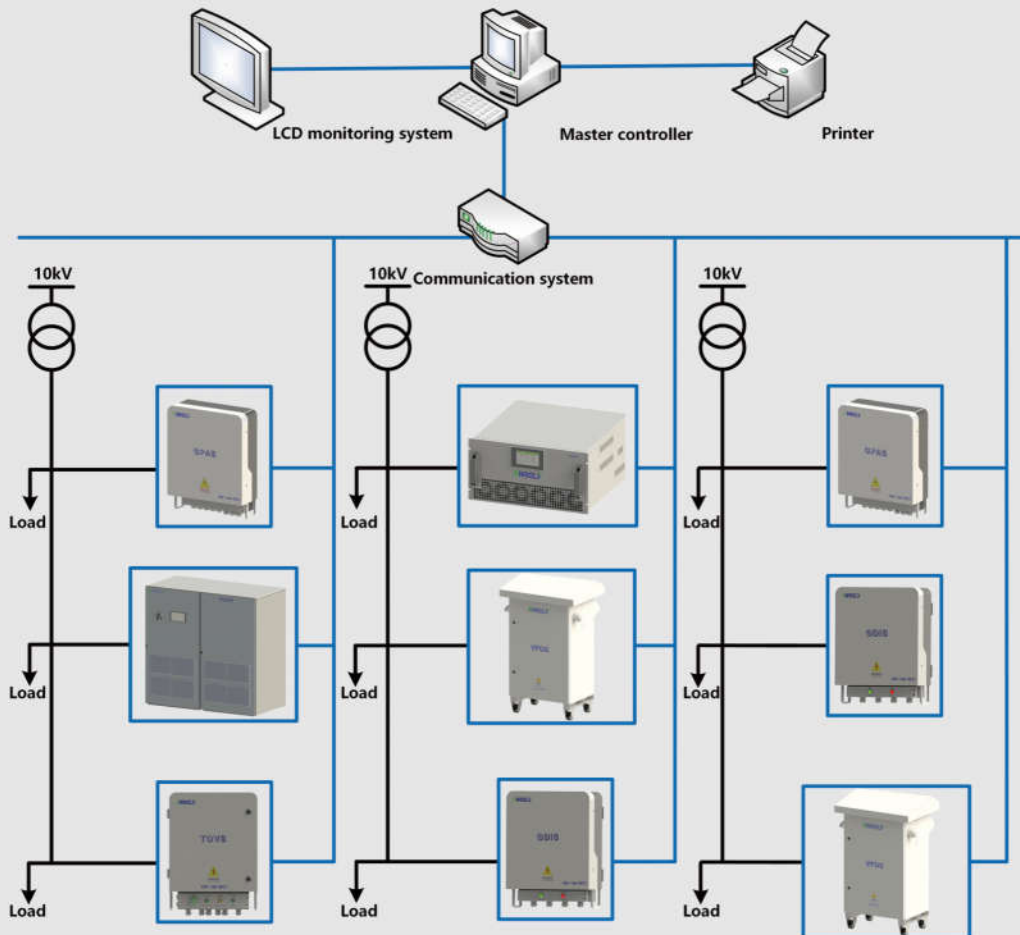
ENRELY-ESSS can monitor various parameters of industry company or factory, for example: dangerous of ground potential attack, dangerous of fault arc, over voltage of lightning, over voltage of operation, over voltage of resonance oscillation, voltage fluctuation, voltage sag, harmonic, load unbalance, neutral line current and disturb in ground system etc.

Any extra equipment is not necessary for ENRELY-ESSS, each equipment can communicate with control system separately.

ENRELY-ESSS can connect into customer original monitoring system.



## ◆ System layout diagram





# Reference

With our innovations and technologies, we also take an importance on business partners, so that Enrely remains successful over the long term. Those examples show how to this.



## Sass-Fee

The Saas Valley is surrounded by no less than eighteen 4,000-metre peaks! Its breathtaking landscape of beautiful mountains and glaciers is simply amazing to behold.

Heavy load causes the damage and the generator tremble –working can't cover the heavy load cause of the insufficient current created by reactive power. On the side of grid, the voltage is not stable for the harmonic.

So we provide a solution of installation of Green Var that compensates reactive power and filter harmonic. As a result, Sass-Fee satisfies the need of heavy-load fully operation on slope, Saving the extra-cost of more generator that compensate power-lack.



## KELBURN

Kelburn is a central suburb of Wellington, the capital city of New Zealand, situated within 1 kilometer (0.62 mi) of the central business district.

Decentralization of residential zones leads to long-distance of transmission line among them. So that the loss of power during transmission of energy to secondary substation make terminal voltage drop unplanned.

After in conjunction with GreenVar, it compensates the voltage in order to stable the power transmission and solve effectively the problem of electrical system caused by reactive power.



## ADELAIDE

Port Adelaide played an important role in the formative decades of Adelaide and South Australia, people move and manage containers of goods by loading tools as loader machines, container cranes etc.

Due to the long transmission line, the terminal voltage is higher at light load and the terminal voltage is too low at heavy load. So that the typical harmonic voltage occurs on the condition of changing-load. The processes of high heavy container moving obtain a solution to solve the problem of harmonic that affect the works in port ADELAIDE.

Since the installation of the Green Sine, the harmonics in the voltage have reduced, and make moving of containers more fast, more influence, and more simple.



## Incheon International Airport

After exported and delivered in July, 160 units of ENRELY devices have finished installation in August. The system solution including 160 units of ENRELY devices are well suited for the need and requirement of technology, performance, reliability, etc. All of their operations cost one month in testing, the performance is verified by owner and the third party.

Since getting off to the best start of expanding our overseas business, ENRELY has constructed the business relationship with our partners such as SIEMENS and the others from New Zealand, Australia, Turkey, and South Korea.

We are still looking for more experts and partners from the other regions.

## Examples of our work



### Ankara Metro 3 Line

Harmonic is often existed in the transportation system because there are lots of harmonic maker as capacitor, transformer etc., Harmonic is the main reason to reduce the power and efficiency, meanwhile increasing risk of accident.

Vehicles also equipped with active power filter Green Sine. As far from operation of Turkey's capital Ankara Metro Line. It makes the whole system stable.



### Mobitel

Mobitel began operations in 1994 under the name Mobitel and launched Tanzania' s first cellular service.

Base station of telecommunication are mainly basis of functional units. The base station contains equipment for transmitting and receiving signal, antennas, and equipment for encrypting and decrypting communication with base station controller (BSC), which is interrupted by harmonics.

The load voltage often fluctuates by poor power quality caused high frequency harmonic. We decided to install the GreenSine with parallel circuit to compensate harmonic in order to decrease the interference of high frequency harmonic in voltage.

As far from operation, Mobitel avoids the power quality caused by harmonic and keep base station work well.



### Steel corporation

The steel company Bulgarian is in its main activity is trade and manufacture of steel products for which it is greatly recognized and has a superior reputation among most company in the country.

when the added equipment operate during the process of steel refine, the harmonic 3rd and 5th give a huge large disturbance in the grid of power to affect the quality of production and the safety of equipment.

Within installation of Green Sine , it mitigated the harmonic 3rd and 5th and all equipment of refining process is running well in compliance of the standard of technique of refining steel and significantly improved the power quality.

# Our service and sales



★ Headquarters :Beijing ,China

✱ Factory:Anshan City,Liaoning Province,China

## ◀▶ Base service

Normal service item after purchasing, including the remote technical support.

## ◀▶ Upgrade service

Purchasing the first installation service from the original manufacturer, or upgrade the base service to golden service 5 × 9 ( Monday to Friday 9:00–18:00 ) 、 platinum service 7 × 24.

## ◀▶ Professional service

Customized service for customers' specific needs, including regular inspection,transforming and reconfiguring the existing system, equipment' s upgrading, removing and performance analysis, and so on.

**ENRELY**

Enjoy Electrical Power Safely

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