VOLTSIV TECHNOLOGY

Advance Power Factor Correction Systems

STATIC VAR GENERATOR (SVG)

Ranging from 10 KVAr to 200KVAr Higher Capacities can be offered on demand as customised solution with parallel configuration . Can offer System of Thousands of KVAr.

Inverter based PFC

Best Strategy for dynamic changing reactive power

Ultrafast 15ms full compensation

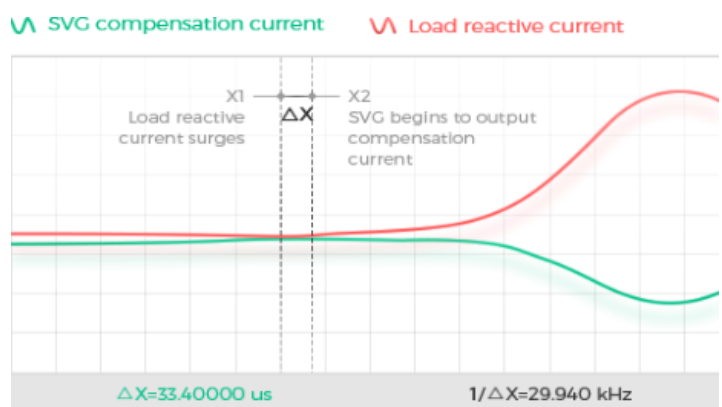
Full operation process including load current detection, reactive power calculation, SVG real time outputs compensation curre

Super stable

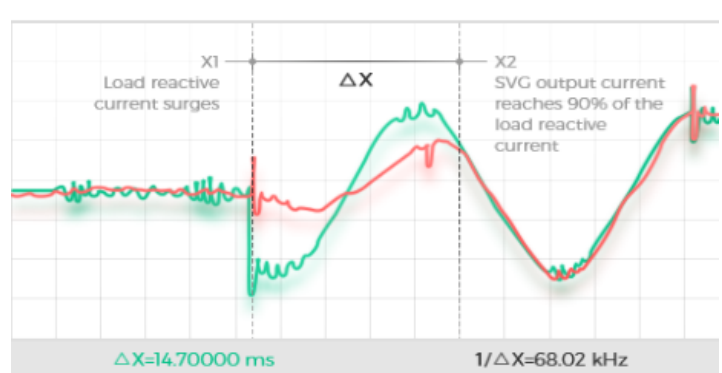
Less likely to be influenced by the changes of system impedance and voltage, not afraid of high THDI systems

Great performance

PF value up to 0.99



Fast response time: 33.4us



Full response time:14.7ms

VoltSiv Technology

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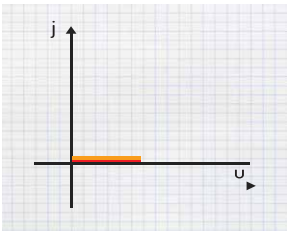
POWER REIMAGINED

ENGINEERING THE FUTURE OF ENERGY

Reactive Power Compensation

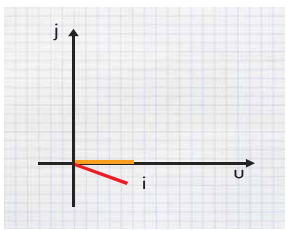
Different compensation model for different loads

CURRENT
VOLTAGE
COMPENSATION CURRENT



Resistive Load

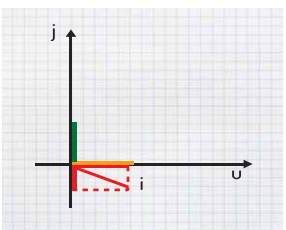
Resistive Load such as string lamp in vector gram,
load appears resistive when current and voltage are phase congruency.

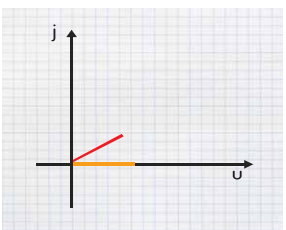


Inductive Load

Inductive Load such as motor, relay, compressor and transformer.
In vector gram, anticlockwise direction is set to be positive direction and **u** direction as the straight direction. Load appears inductive and resistive when **i** is within 0 to -90 degree.

SVG produces capacitive current to neutralize inductive content of the load, achieving the performance for current and voltage phase congruency.

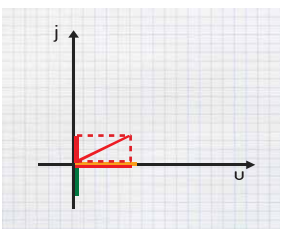




Capacitive Load

Capacitive load such as capacitor bank.
In Vector gram, anticlockwise direction is set to be positive and **u** direction as the straight direction. Load appears capacitive and resistive when **i** is within 0 to 90degree.

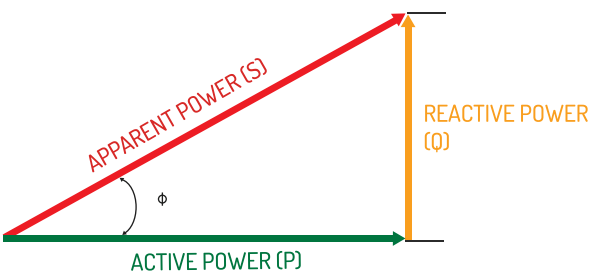
SVG produces inductive current to neutralize capacitive content of the load, achieving the performance for current and voltage phase congruency.



POWER FACTOR

Optimize your reactive power compensation efficiency.

ACTIVE POWER
REACTIVE POWER
APPARENT POWER
POWER FACTOR



$P^2 + Q^2 = S^2$

Power Factor Cos

$\text{Cos}\phi = \frac{P}{S}$

Benefits of PFC

- Avoid penalty for low PF by user company.
- Reduce electric energy loss.
- Release system capacity occupied by Reactive Power.
- Increase usage effectiveness of system power capacity.