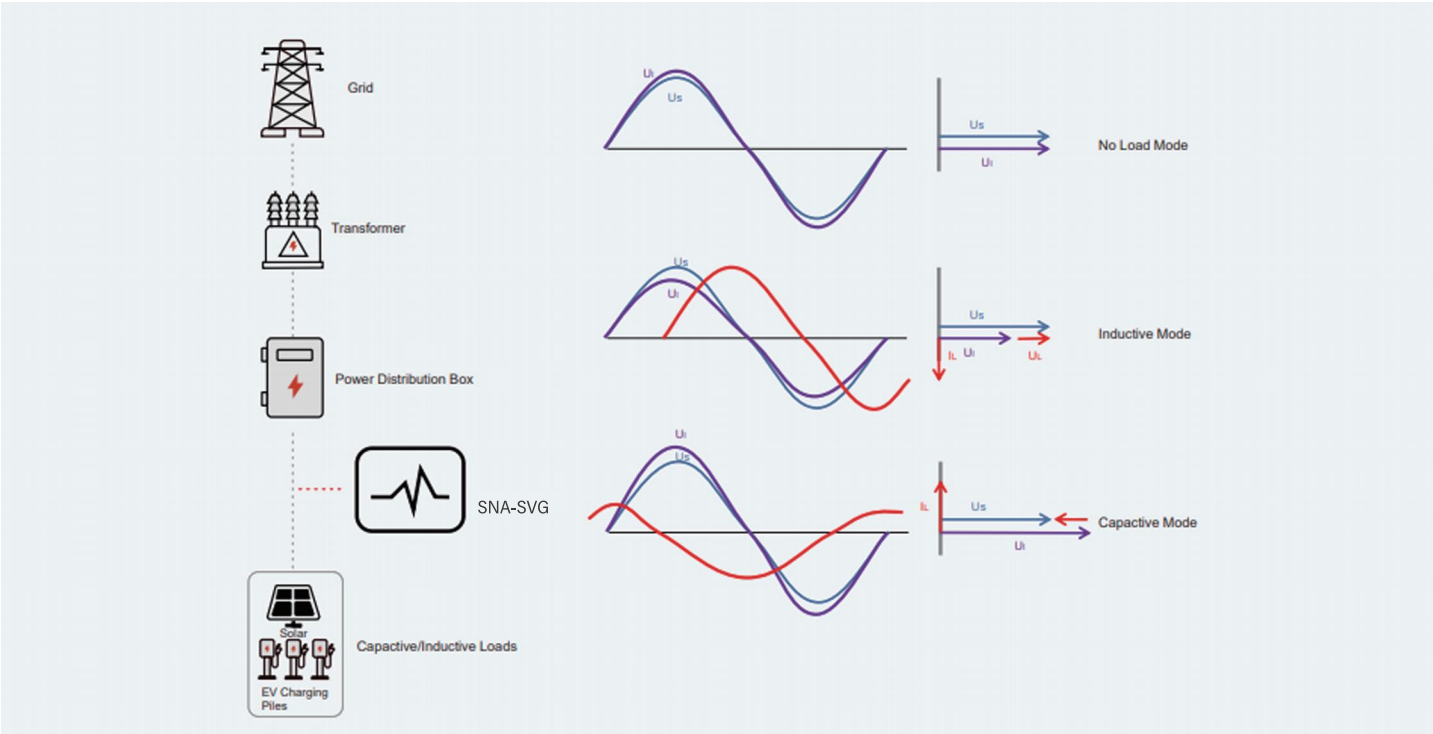
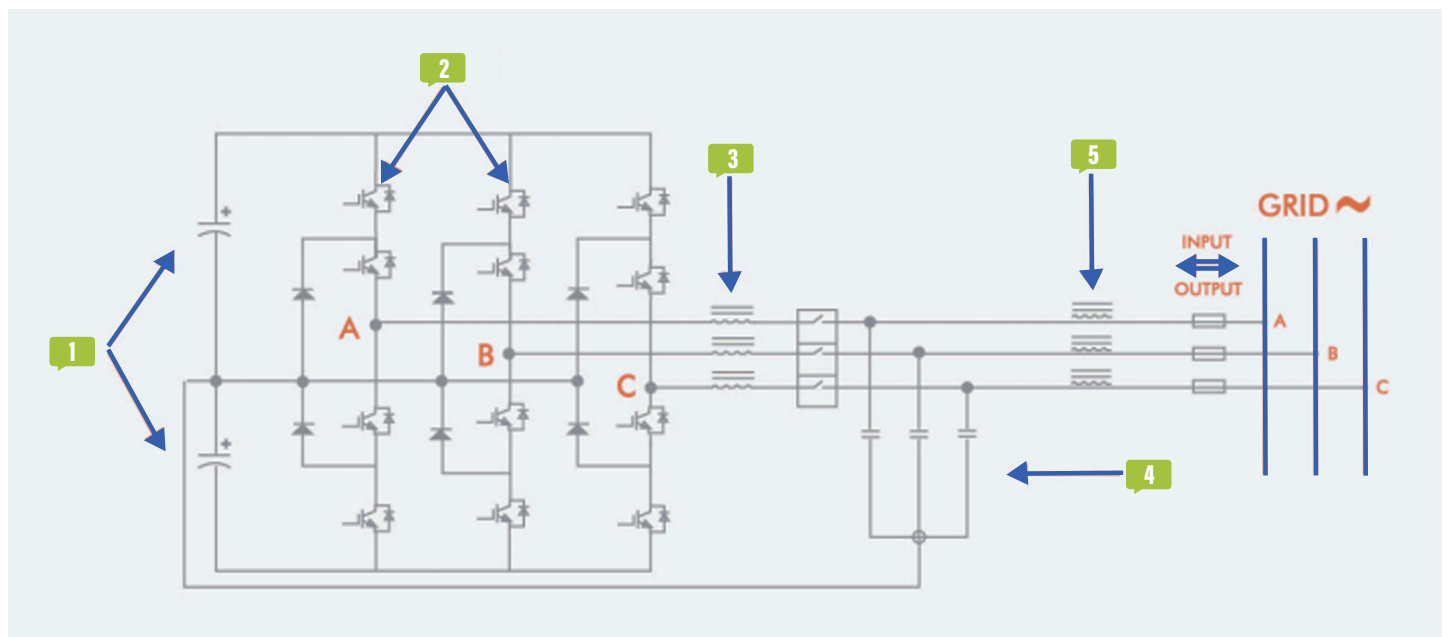




| Product Capacity |      | 15kvar | 25kvar | 30kvar | 50kvar | 75kvar | 100kvar | 150kvar |
|------------------|------|--------|--------|--------|--------|--------|---------|---------|
| Network          | 220V | ■      | ■      | ■      | ■      | —      | —       | —       |
|                  | 400V | —      | —      | ■      | ■      | ■      | ■       | ■       |
|                  | 480V | —      | —      | —      | ■      | —      | ■       | —       |

## How SVG compensate reactive power

IGBT on-off timing selection and length could control inverter to generate an accurate reactive power compensation current. IGBT compensating inductive reactive power or capacitive reactive power by controlling inverter induction to generate a capacitive current or inductive current to achieve bidirectional reactive power compensation. LC filter circuit and high frequency inductor both are for filtering. The combination of LC filter circuit and high frequency inductor are call LCL filter circuit.



## ADVANTAGES & BENEFITS

- Suitable for use in Harmonics loaded Network
- Avoid penalty for low PF by Utility Company, reduce energy bill
- Reduce electric energy loss
- Respond dynamically to reactive power from Leading to Lagging condition
- Stepless compensation
- Fast response time 20ms to full compensation



## SPECIFICATION

| Items                    | 220V                                                                                                             | 400V                              | 480V            |
|--------------------------|------------------------------------------------------------------------------------------------------------------|-----------------------------------|-----------------|
| Rated capacity           | 15/25/30/50 kVar                                                                                                 | 30/50/75/100/150 kvar             | 50/100 kvar     |
| System parameters        |                                                                                                                  |                                   |                 |
| Rated Voltage            | 220V(176V~264V)                                                                                                  | 380V(228V~456V)                   | 480V(380V~690V) |
| Rated Frequency          | 50Hz/60Hz (-10% ~ +10%)                                                                                          |                                   |                 |
| Parallel quantities      | Each HMI available for 10 Units, HMI Paralled connection not limited                                             |                                   |                 |
| Wiring                   | 3P3W/3P4W                                                                                                        |                                   |                 |
| Performance Indicator    |                                                                                                                  |                                   |                 |
| Function                 | Reactive power compensation, Unbalance compensation, Harmonic compensation                                       |                                   |                 |
| Control algorithm        | FFT/Interlligent FFT/Instantaneous Reactive Power                                                                |                                   |                 |
| Harmonic Filtering       | 2nd to 13th Odd orders                                                                                           |                                   |                 |
| Performance              | ≥97%                                                                                                             |                                   |                 |
| Reaction time            | <50μs                                                                                                            |                                   |                 |
| Overall response time    | <10ms                                                                                                            |                                   |                 |
| Target power factor      | adjust from -1 to +1                                                                                             |                                   |                 |
| Noise level              | <60 dB                                                                                                           |                                   |                 |
| Communication & Display  |                                                                                                                  |                                   |                 |
| Interface                | RS485                                                                                                            |                                   |                 |
| Communication            | MODBUS-RTU                                                                                                       |                                   |                 |
| Display                  | 4"LCD display on wall mounted module, 7"HMI for rack mounted module parallel connection                          |                                   |                 |
| Protection               | Over 20 kinds of protections such as over-voltage, under-voltage, overheating, over-current, short circuit, etc. |                                   |                 |
| Fault alarm              | Up to 500 Alarm event records                                                                                    |                                   |                 |
| Net Weight               | 13kg(30kVar); 24kg(50kVar); 38kg(100kVar); 45kg(150kVar)                                                         |                                   |                 |
| Mechanical Feature       |                                                                                                                  |                                   |                 |
| Installation             | Wall mount/Rack mount/ Floor stand cabinet                                                                       |                                   |                 |
| Dimension<br>(W*D*H)mm   | 220V Wall/Rack mount 15/25kvar                                                                                   | 480*130*440                       |                 |
|                          | 220V Wall/Rack mount 30/50kvar                                                                                   | 480*200*530                       |                 |
|                          | 400V Wall/Rack mount 30/75kvar                                                                                   | 480*200*530                       |                 |
|                          | 400V Wall/Rack mount 100/150kvar                                                                                 | 680*200*530                       |                 |
|                          | 480V Wall/Rack mount 50/100kVar                                                                                  | 680*200*580                       |                 |
|                          | 220V/400V/480V Floor Stand Cabinet                                                                               | 1000*1000*2000mm or by Customized |                 |
| Color                    | Grey/Black, Cabinet color can be customized                                                                      |                                   |                 |
| Altitude                 | ≥1500m, Between 1,500m to 4000m, derating 1% every additional 100m                                               |                                   |                 |
| Ambient temperature      | -20℃~40℃                                                                                                         |                                   |                 |
| Relative humidity        | 5~95%, non-condensing                                                                                            |                                   |                 |
| IP Grade                 | Wall mount module : IP 20; Floor Stand: IP41                                                                     |                                   |                 |
| Certification & Standard |                                                                                                                  |                                   |                 |
| Certification            | CE                                                                                                               |                                   |                 |
| Standard complication    | IEEE519, IEC61000                                                                                                |                                   |                 |