

P5 Series SVG 100kVAr

P5 SVG Series

Sinexcel had been on the technology summit of power quality industry.

Now, Sinexcel P5 SVG Series had broken own ceiling again with brilliant innovations.

P5 SVG series will release to mass production to market on **March 2023**

Innovation	100%
Peak efficiency	99%
Electricity fee saving	2,834 USD Per Year



Big Breakthrough Peak Efficiency 99%

Power electronics, every 0.5% increase in efficiency, is a great technological improvement. **Silicon carbide**, a new and high efficient power component, replaces ordinary silicon devices, Sinexcel has once again made major technology innovations in circuit design and algorithm,

Sinexcel P5 SVG Series

4*0.5% efficiency breakthrough (compared to standard module)

- High Withstand Voltage
- High Power Density
- High Heat Conduction Rate
- High Switching Frequency

Energy Saving Benefit

Product	Efficiency	Product	Efficiency	Energy Saving/KWH
SVG 100kVAr P2	97%	SVG 100kVAr P5	99%	18,890KWH→2834USD

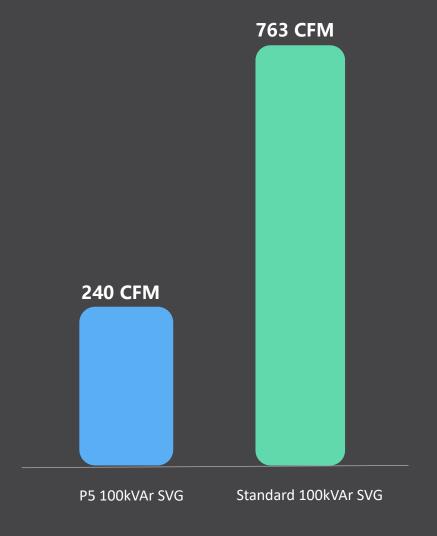
Sinexcel P5 SVG Series compared with Standard SVG Series

Singapore voltage 415V, U*I*1.732*0.02*24*365

100kVAr SVG as example, energy consume saving ≈ 18,890 KWH per year
Using 0.15USD/KWH as electricity pricing



Electricity Fee Saving: 2,834 USD Per Year



>70% Ventilation Requirement Reduced



Less air conduct, lower noise



Less heat generation, longer lifespan



Less ventilation, more flexible cabinet configuration



≈69% Reduce Mechanical Size

Weight Drop From 48kg to 25kg









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Higher Integrated!

Saving more space and higher power rating when integrated into the panel.

Less ventilation volume required as less space taken up.



For Standard cabinet only support 5 standard modules maximum,





Maximum capacity up high to 900kVAr SVG

Standard Flex. Cabinet

Cabinet More Functional





Support single 7-inch HMI to control **16 modules maximum**



Support **SVG+AHF hybrid** installation only use one 7-inch HMI to control



Convenient Installation

- Two modules installation, total height are 200mm
- Smaller size that more suitable for small area application, more optional and flexible for customer
 - More convenient installation and connection, only power cables and CTs to be connected

P5 Series SVG Capacity Optional



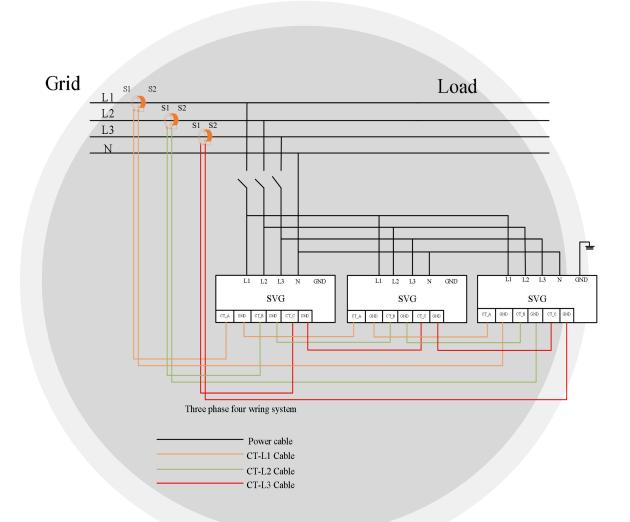
10kVAr Balde SVG (Had released in 2017 year) 15/30/50kVAr SVG (Will be released in October 2023 year) 100kVAr SVG (Will be mass production in March 2023 year)

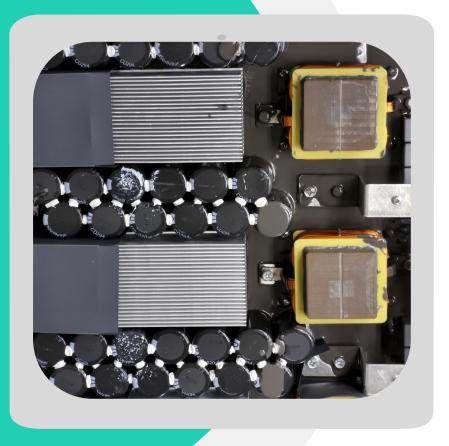
400V supports 3P3W&3P4W SVG (CE certification) Compatible 380~480V supports 3P3W (ETL certification)

CT "Close Loop" Design

P5 series supports grid side connection, which means only one set of CT is needed on the grid side (load side) even with multiple modules paralleled.

- Less CTs, less material cost
- Simplified wiring, less operating charges





Hardware Updated

Friendly design, better user experience

Highly protection IV level

All veneers inside the module are fully glued that is more suitable for hash environment, **like conductive dust, seaward corrosivity industry.**





Three N cables connection

NNNL3L2L1

Enhanced triple zero-sequence harmonic compensation capability

