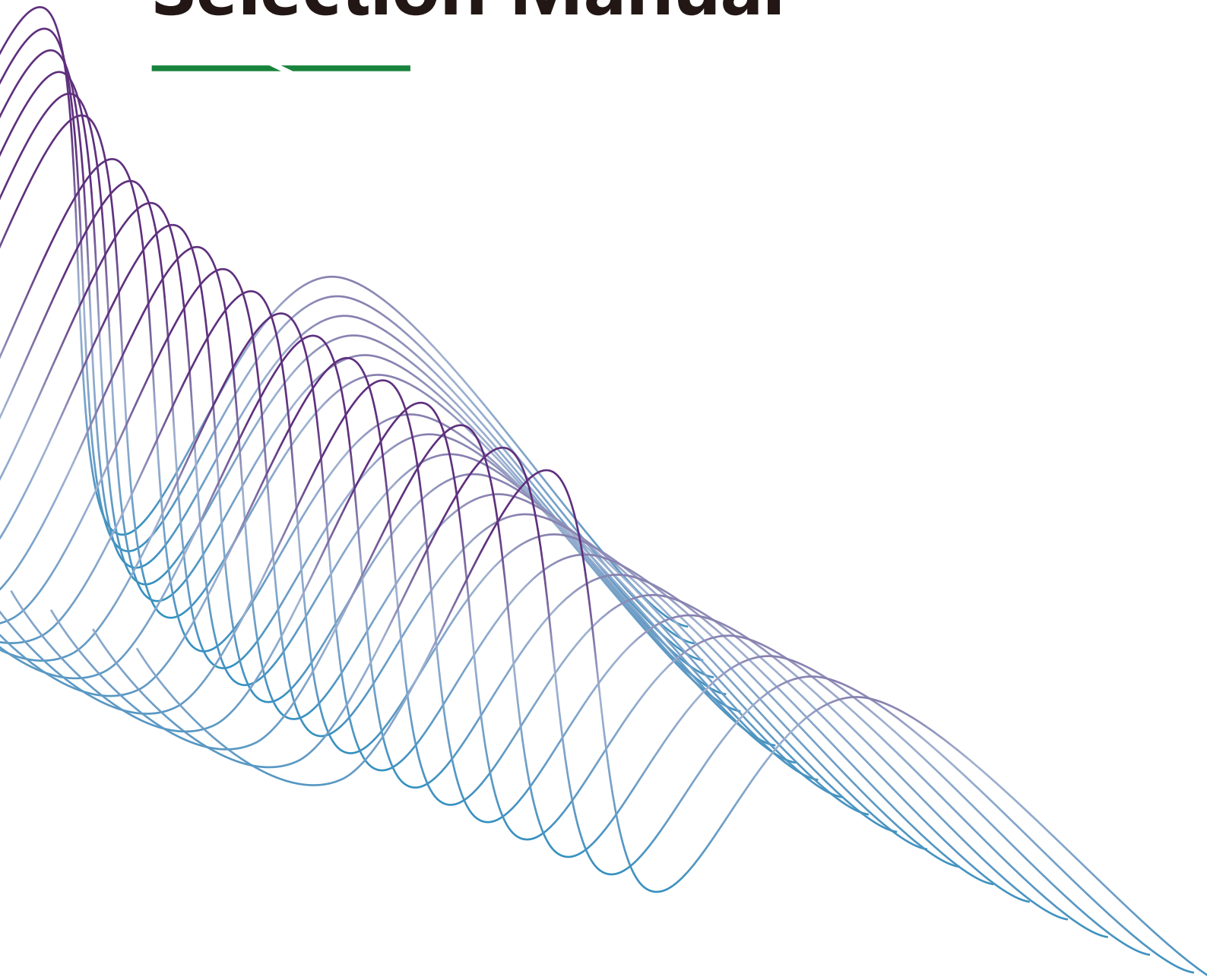


Power Quality Product Selection Manual



About Us

Shenzhen Enjoy Technology Co., Ltd. is a high-tech enterprise specializing in the field of power electronics. We are committed to the research and development, production, sales, and service of core components and microgrid solutions for power transmission and distribution systems, and are a leading professional manufacturer of power electronic equipment in the industry.



2015年

Company incorporation



16000m²

Factory&Research and
development Building



90+/290+

Developers/employee



1000+

Global Partners



Top 1

Power Quality Products
OMD manufacturer



18GW+

Accumulated shipping
power

- ✓ ISO9001, ISO14001, ISO45001
- ✓ CE, RoHS, TUV, CQC
- ✓ National high-tech enterprise
- ✓ Guangdong Province's "Specialized, Refined, Unique and New" Enterprise
- ✓ National level 'specialized, refined, unique, and innovative' little giant
- ✓ Shenzhen Top Ten Innovative and Entrepreneurial Benchmark Enterprises Award
- ✓ Best PCS Supplier Award in China's Energy Storage Industry for Four Consecutive Years
- ✓ Top 10 Innovative Power Quality Brands in China for Multiple Years

CATALOG

SinL series AHF 01

APF

30A、50A、75A、
100A、150A、200A

SinL series SVG 02

SVG

20kvar、35kvar、50kvar、
75kvar、100kvar、150kvar

Product Dimension Drawing 03

Product Dimension Drawing

Rack mounted dimension diagram,
Wall mounted dimension diagram

SinL series AHF



Efficient and Stable

- Wide filtering range, with a filtering rate of up to 95% for 2nd to 50th harmonics
- Realize current distortion rate THDi $\leq 5\%$



Safe and reliable

- Comprehensive software and hardware protection
- Stable operation in harsh power grid environments



Flexible application

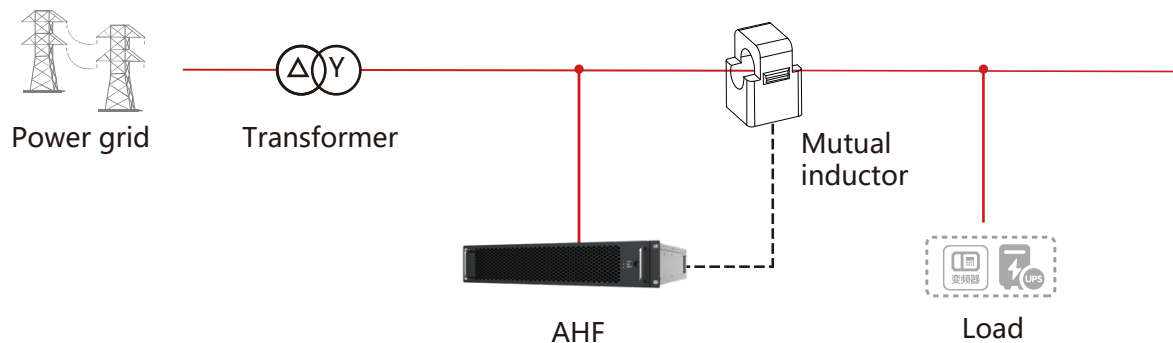
- Support harmonic, reactive power, three-phase imbalance, and zero line control
- Multiple application modes can be used in combination



Highly adaptable

- Suitable for THDu-10% power grid application environment
- Support fine compensation for small currents

Typical Applications



Technical Specifications

SinL series AHF technical data and specifications	
AHF electrical specifications	
Rated voltage	200/400V
Input voltage range	-20%~+20%
Single module capacity	30A、50A、75A、100A、150A、200A
Frequency	50/60Hz (-10%~+10%)
Filter range	2 to 50 times optional, single time optional
Harmonic filtering capability	Better than 95% under rated load
CT installation method	Open loop or closed loop (recommended for parallel operation)
Response time	≤10ms
line system	Three phase three wire/Three phase four wire
Overload capacity	Can operate continuously at 110% rated current and run for 1 minute at 120% rated current
Circuit topology	Three-level topology
Switching frequency	20kHz
Parallel unit quantity	≤ 20 modules in parallel
Redundancy	Any unit can become an independent unit
Efficiency	≥97.5%
Power factor control	Compensation for all inductive or capacitive currents from 0% to 100%
Compensation effect	100% compensation for unbalanced capacitance and power; Capacitive sensitivity continuously adjustable
Display function	
Display	1.8/7-inch screen (optional)
Communication	
Communication interface	RS485/CAN interface
	CAN protocol, RJ45 interface, used for communication between modules
Conventional Parameters	
Noise	<56dB maximum to<69dB (depending on module or load conditions)
Altitude	Reduced usage when>1500m
Ambient temperature	Working temperature: -25~55 °C, use with a reduced rating above 45 °C
	Storage temperature: -45~70 °C
Humidity	5%~95%RH, No condensation
Protection level	IP20
General structural and safety	EN62477-1 (2012) , EN61439-1 (2011)
EMC	EN/IEC 61000-6-4, Class A
Certification	CE, CQC

SinL series SVG



Efficient and Stable

- Efficiency $\geq 97.5\%$
- Reactive power compensation rate $\geq 99\%$



Reactive power compensation

- Support target power factor setting
- Support constant reactive power compensation



Flexible application

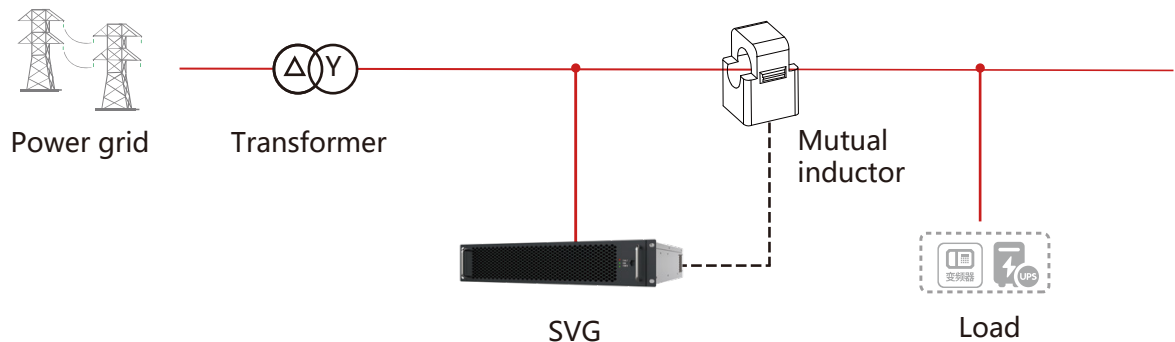
- Support compensation modes such as harmonic, reactive power, and three-phase imbalance
- Priority optional, allocation ratio adjustable



Highly adaptable

- Support controlling the switching of mainstream capacitors in China
- Can operate stably in harsh power grid environments

Typical Applications



Technical Specifications

SinL series SVG technical data and specifications	
SVG electrical specifications	
Rated voltage	400V
Input voltage range	-20%~+20%
Single module capacity	20kvar、35kvar、50kvar、75kvar、100kvar、150kvar
Frequency	50/60Hz (-10%~+10%)
Filter range	2 to 13 times optional, single time optional
Harmonic filtering capability	Better than 95% under rated load
CT installation method	Open loop or closed loop (recommended for parallel operation)
Response time	≤5ms
line system	Three phase three wire/Three phase four wire
Overload capacity	Can operate continuously at 110% rated current and run for 1 minute at 120% rated current
Circuit topology	Three-level topology
Switching frequency	20kHz
Parallel unit quantity	≤ 20 modules in parallel
Redundancy	Any unit can become an independent unit
Efficiency	≥97.5%
Power factor control	Compensation for all inductive or capacitive currents from 0% to 100%
Compensation effect	100% compensation for unbalanced capacitance and power; Capacitive sensitivity continuously adjustable
Display function	
Display	1.8/4.3/7-inch screen (optional)
Communication	
Communication interface	RS485/CAN interface
	CAN protocol, RJ45 interface, used for communication between modules
Conventional Parameters	
Noise	<56dB maximum to <69dB (depending on module or load conditions)
Altitude	Reduced usage when >1500m
Ambient temperature	Working temperature: -25~55 °C, use with a reduced rating above 45 °C
	Storage temperature: -45~70 °C
Humidity	5%~95%RH, No condensation
Protection level	IP20
General structural and safety	EN62477-1 (2012) , EN61439-1 (2011)
EMC	EN/IEC 61000-6-4, Class A
Certification	CE, CQC

Attention: When the rated voltage is 220V, the power is halved

Rack mounted dimension diagram



Module		Size: W*D*H (mm)	Weight (kg)
400V	35kvar/50A	440*425*88	14
	50kvar/75A	440*425*88	17.5
	75kvar/100A	500*550*100	29
	100kvar/150A	500*550*100	31
480V	42kvar/50A	440*425*88	14
	60kvar/75A	440*425*88	17.5
	90kvar/100A	500*550*100	29
	120kvar/150A	500*550*100	31

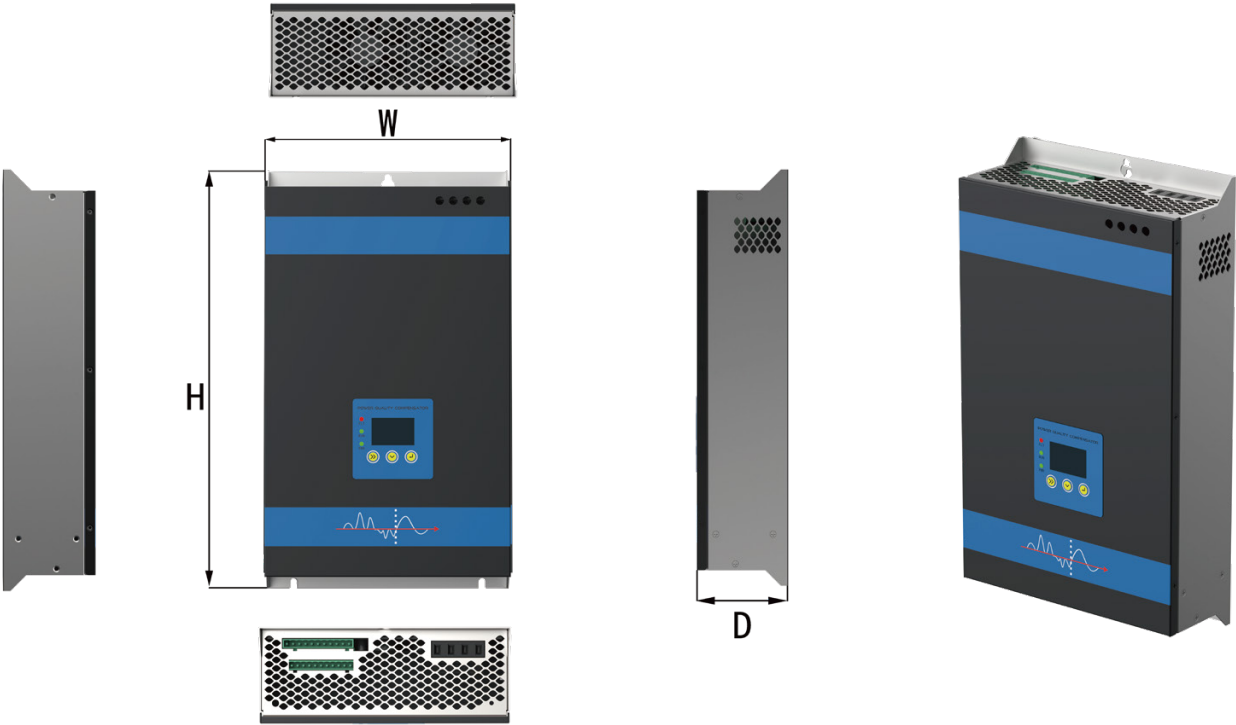
Rack mounted dimension diagram



Module		Size: W*D*H (mm)	Weight (kg)
400V	150kvar/200A	500*640*200	55
480V	180kvar/200A	500*640*200	55

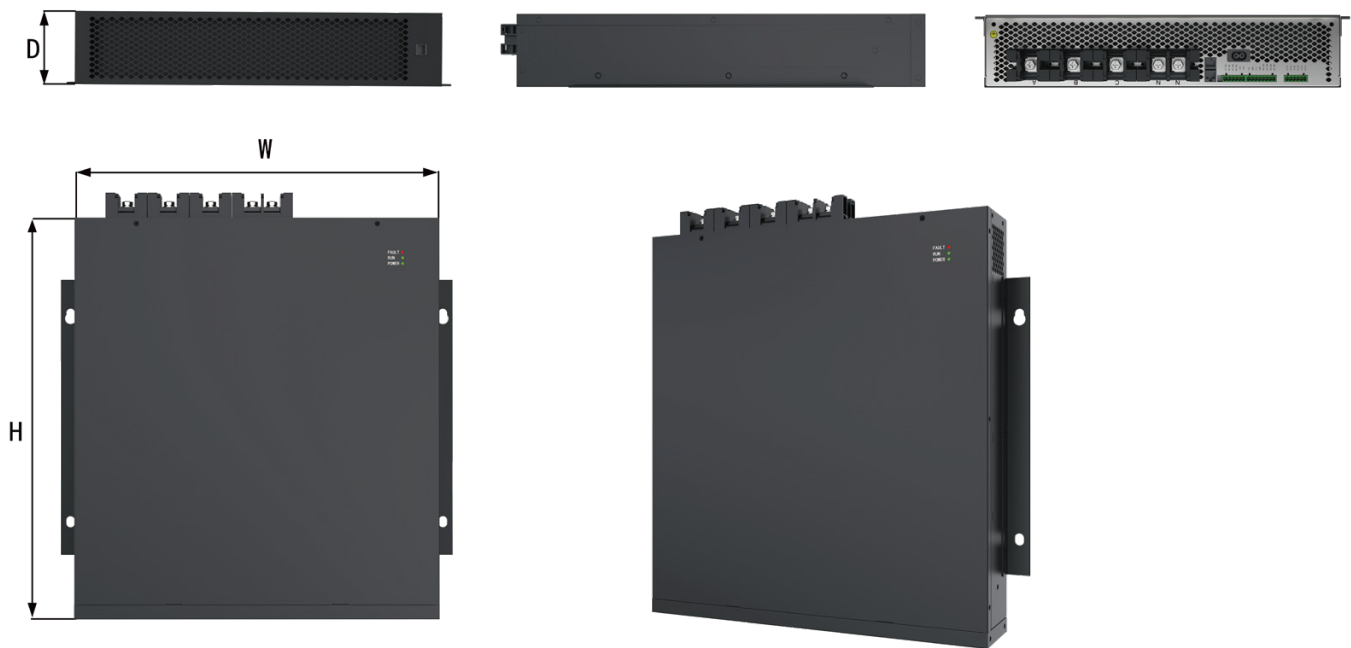
Wall mounted dimension diagram

ENJOY



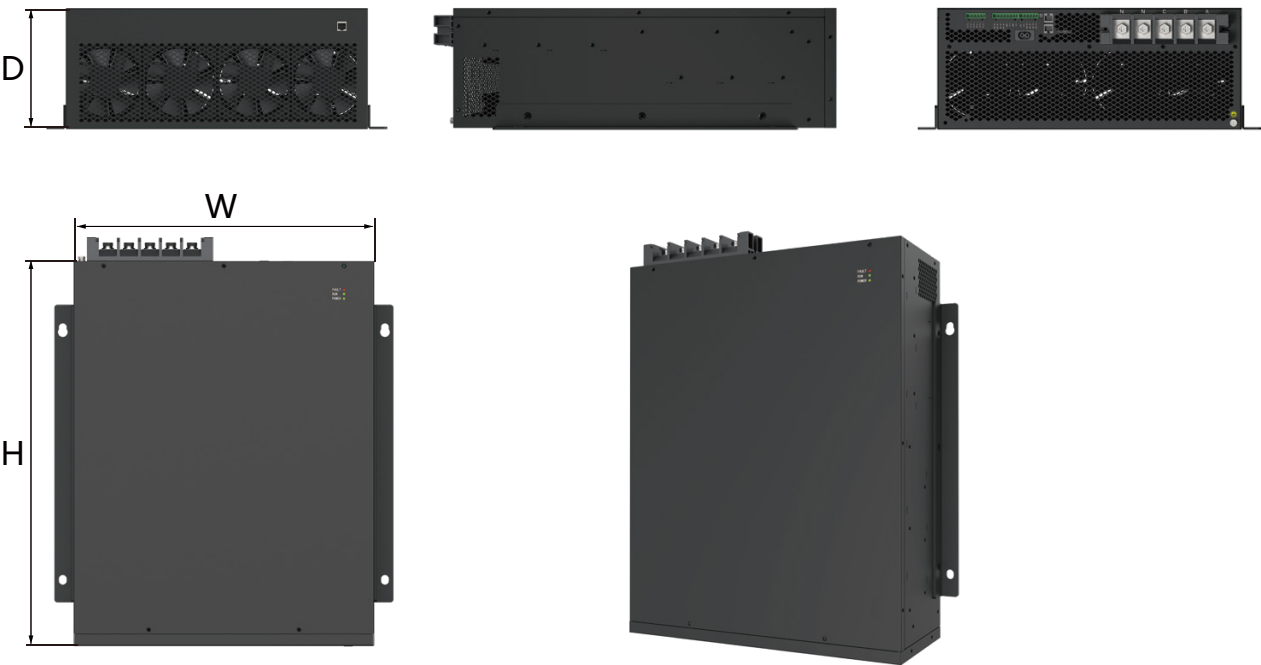
Module		Size: W*D*H (mm)	Weight (kg)
400V	20kvar/30A	230*88*400	7.5
480V	24kvar/30A	230*88*400	7.5

Wall mounted dimension diagram



Module		Size: W*D*H (mm)	Weight (kg)
400V	35kvar/50A	440*88*425	14
	50kvar/75A	440*88*425	17.5
	75kvar/100A	500*100*550	31
	100kvar/150A	500*100*550	31
480V	42kvar/50A	440*88*425	14
	60kvar/75A	440*88*425	17.5
	90kvar/100A	500*100*550	31
	120kvar/150A	500*100*550	31

Wall mounted dimension diagram



Module		Size: W*D*H (mm)	Weight (kg)
400V	150kvar/200A	500*200*640	55
480V	180kvar/200A	500*200*640	55

Wall mounted with 4.3-inch HMI size diagram



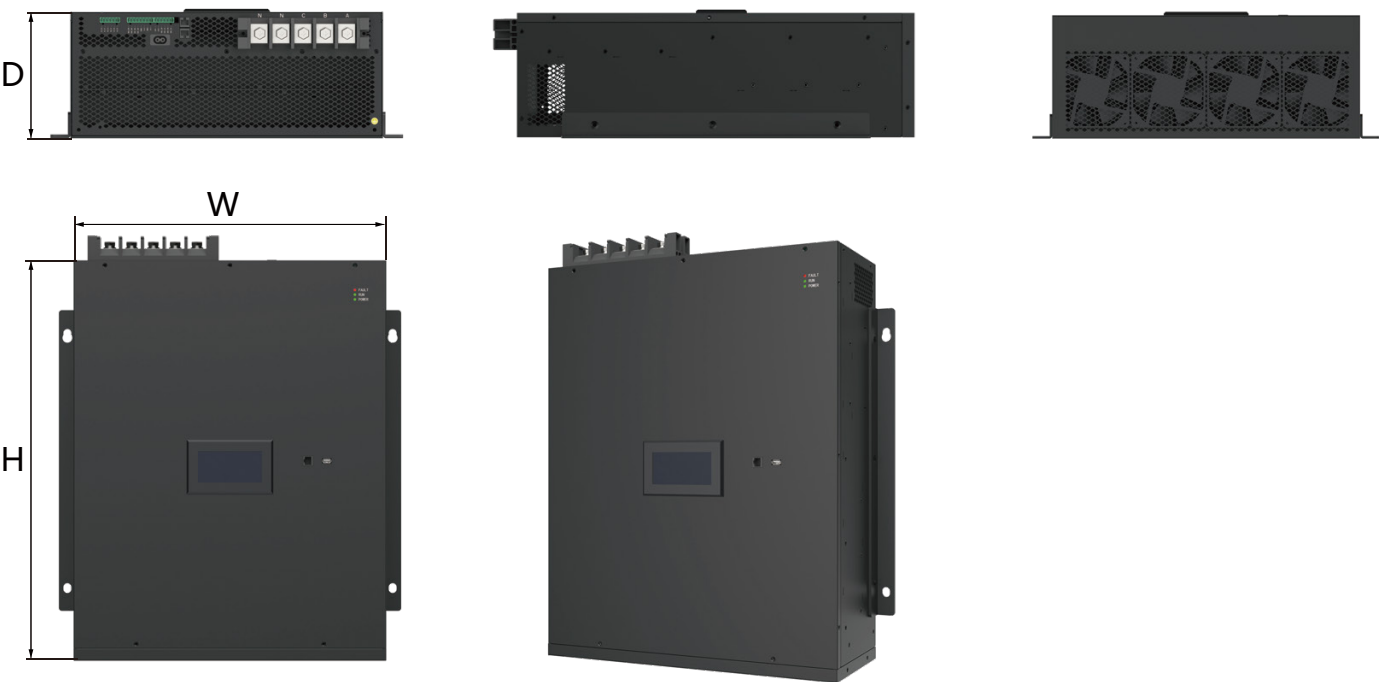
Module		Size: W*D*H (mm)	Weight (kg)
400V	35kvar/50A	443*128.6*425	16
	50kvar/75A	443*128.6*425	19.5
480V	42kvar/50A	443*128.6*425	16
	60kvar/75A	443*128.6*425	19.5

Wall mounted with 4.3-inch HMI size diagram



Module		Size: W*D*H (mm)	Weight (kg)
400V	75kvar/100A	503*139.4*550	33
	100kvar/150A	503*139.4*550	33
480V	90kvar/100A	503*139.4*550	33
	120kvar/150A	503*139.4*550	33

Wall mounted with 4.3-inch HMI size diagram



Module		Size: W*D*H (mm)	Weight (kg)
400V	150kvar/200A	500*200*640	57
480V	180kvar/200A	500*200*640	57