

**VEIKONG**

# SOLAR PUMPING INVERTER

A NEW GENERATION CONTROLLER



**VEIKONG**

— We can do it more! —

**ShenZhen VEIKONG Electric CO.,Ltd.**

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[www.veikong.com](http://www.veikong.com)

CHINA SHENZHEN

ShenZhen VEIKONG Electric CO.,Ltd.

# COMPANY PROFILE

## Brief introduction

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## Brief introduction



Professional R&D team

# 20+

Over 20 years of professional management experience

Shenzhen VEIKONG ELECTRIC CO., LTD is a reputable high-tech enterprise that specializes in researching, manufacturing, and trading both medium and low voltage inverters and solar pumping inverter. We offer our clients integrated system solutions, and our professional R&D team and devoted management with over 20 years of experience have made us one of the first independent AC drives companies in China.

We incorporate latest high efficiency mppt calculations and SPWM, sensorless vector control, and vector and torque control technology into our VFD and solar pump inverter which have reached international advanced standards, making them able to directly replace and be equivalent to Europe, the United States, Japan, and other brands, providing our clients with the highest level of technical support.

Quality is the foundation of our enterprise, and we consistently follow ISO9001 standards to manage and supervise quality. Our products have passed CE and IEC certifications and other technical approvals, and we continuously upgrade our technologies and products to better meet our customers' requirements and market needs.

VEIKONG team believes that the customer is the source of our enterprise. We take great pride in placing our customers' requirements first and ensuring that we meet and exceed their expectations. Our products have been widely used in various industries, including solar pumping, petroleum, chemical, melting, hoisting, electric power, building materials, water supply, plastics, textiles, printing, packing, and more, to create value for our customers.

**VEIKONG** , your trusted supplier!



# VEIKONG







# VFD500-PV

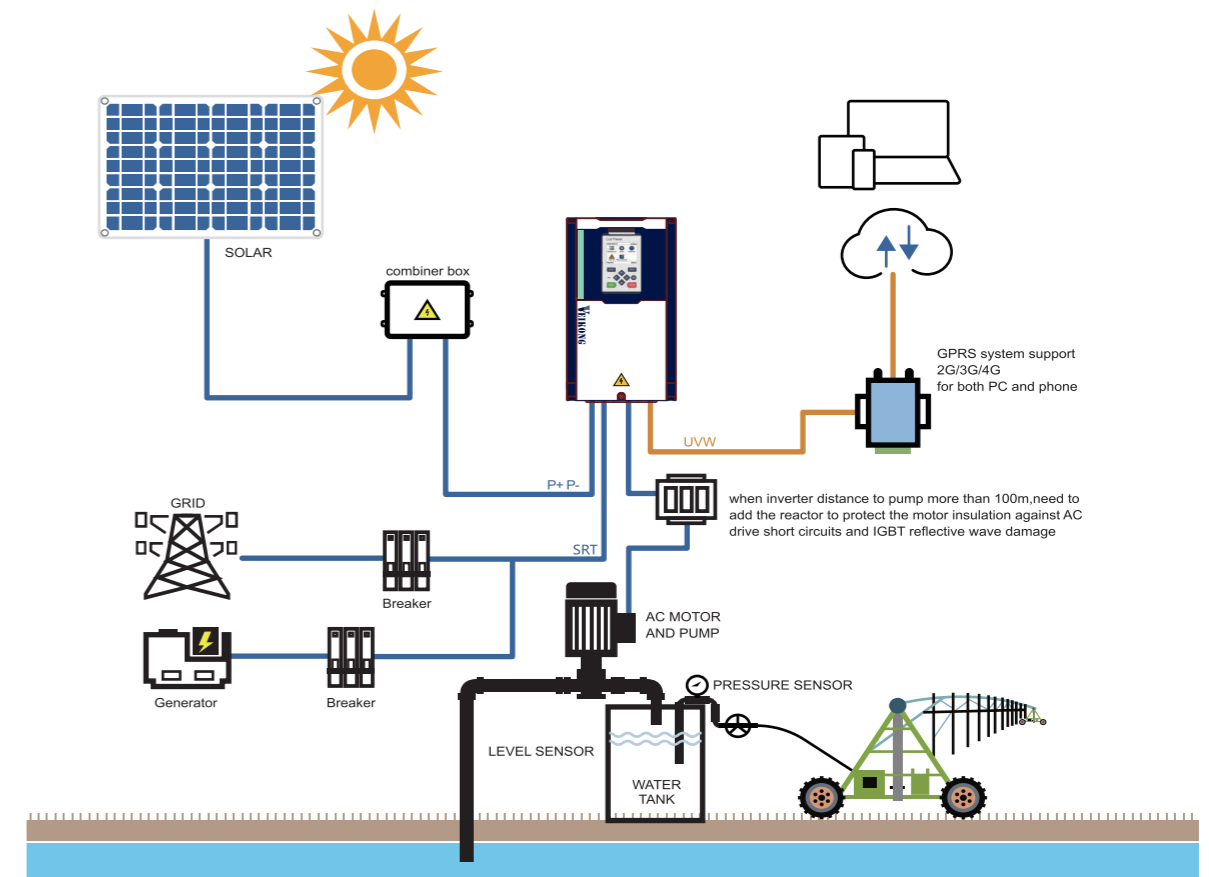
## Solar Pumping Inverter



### Solar pump inverter working principle



### Model reference



### Electrical Specifications

|  |  |                       |
|--|--|-----------------------|
|  | 220V   | 380V                  |
| Max input DC voltage(VOC)                | 450V   | 800V                  |
| DC voltage range                         | 160V-450V  | 350V-800V             |
| Recommended DC input voltage range(Vmpp) | 250V-400V  | 450V-600V             |
| Recommended input operation voltage      | 305V(Vmpp)   | 530V(Vmpp)            |
| MPPT efficiency                          | >99%   |                       |
| Rated output voltage                     | 1/3-phase 220VAC   | 3-phase 380V-480V VAC |
| Output frequency range                   | 50/60Hz(maximum 600hz)                                   |                       |
| Max efficiency of the machine            | 99%  |                       |
| Ambient temperature range                | -10 °C-50 °C, derating if the temperature is above 40 °C |                       |
| Cooling method                           | Air cooling  |                       |
| Protection degree                        | IP20/P21   |                       |
| Altitude                                 | Below 1000m; above 1% for every additional 100m.         |                       |
| Standard                                 | IEC CE   |                       |



## Model Range

| Drive Model         | Related Voltage | Max DC input voltage (V) | Rated output current (A) | Applicable water pump (KW) | SIZE   | Inverter photo |
|---------------------|-----------------|--------------------------|--------------------------|----------------------------|--------|----------------|
| VFD500M-20T00150-PV | 220V            | 450V                     | 7                        | 1.5                        | SIZE A |                |
| VFD500M-20T00220-PV | 220V            | 450V                     | 10.6                     | 2.2                        | SIZE A |                |
| VFD500M-40T00150-PV | 380V            | 800                      | 3.7                      | 1.5                        | SIZE A |                |
| VFD500M-40T00220-PV | 380V            | 800                      | 5                        | 2.2                        | SIZE A |                |
| VFD500M-40T00400-PV | 380V            | 800                      | 9.4                      | 4                          | SIZE A |                |
| VFD500M-40T00550-PV | 380V            | 800                      | 13                       | 5.5                        | SIZE A |                |
| VFD500M-40T00750-PV | 380V            | 800                      | 17                       | 7.5                        | SIZE A |                |
| VFD500-20T00150-PV  | 220V            | 450                      | 7                        | 1.5                        | SIZE A |                |
| VFD500-20T00220-PV  | 220V            | 450                      | 10.6                     | 2.2                        | SIZE A |                |
| VFD500-20T00400-PV  | 220V            | 450                      | 17                       | 4                          | SIZE A |                |
| VFD500-40T00150-PV  | 380V            | 800                      | 4.2                      | 1.5                        | SIZE A |                |
| VFD500-40T00220-PV  | 380V            | 800                      | 6                        | 2.2                        | SIZE A |                |
| VFD500-40T00400-PV  | 380V            | 800                      | 9.4                      | 4                          | SIZE A |                |
| VFD500-40T00550-PV  | 380V            | 800                      | 13                       | 5.5                        | SIZE B |                |
| VFD500-40T00750-PV  | 380V            | 800                      | 17                       | 7.5                        | SIZE B |                |
| VFD500-40T01100-PV  | 380V            | 800                      | 25                       | 11                         | SIZE C |                |
| VFD500-40T01500-PV  | 380V            | 800                      | 32                       | 15                         | SIZE C |                |
| VFD500-40T01850-PV  | 380V            | 800                      | 37                       | 18.5                       | SIZE D |                |
| VFD500-40T02200-PV  | 380V            | 800                      | 45                       | 22                         | SIZE D |                |
| VFD500-40T03000-PV  | 380V            | 800                      | 60                       | 30                         | SIZE E |                |
| VFD500-40T03700-PV  | 380V            | 800                      | 75                       | 37                         | SIZE E |                |
| VFD500-40T04500-PV  | 380V            | 800                      | 90                       | 45                         | SIZE F |                |
| VFD500-40T05500-PV  | 380V            | 800                      | 110                      | 55                         | SIZE F |                |
| VFD500-40T07500-PV  | 380V            | 800                      | 152                      | 75                         | SIZE G |                |
| VFD500-40T09000-PV  | 380V            | 800                      | 176                      | 90                         | SIZE G |                |
| VFD500-40T11000-PV  | 380V            | 800                      | 210                      | 110                        | SIZE H |                |
| VFD500-40T13200-PV  | 380V            | 800                      | 253                      | 132                        | SIZE I |                |
| VFD500-40T16000-PV  | 380V            | 800                      | 304                      | 160                        | SIZE I |                |
| VFD500-40T18500-PV  | 380V            | 800                      | 360                      | 185                        | SIZE J |                |
| VFD500-40T20000-PV  | 380V            | 800                      | 380                      | 200                        | SIZE J |                |
| VFD500-40T22000-PV  | 380V            | 800                      | 426                      | 220                        | SIZE K |                |
| VFD500-40T25000-PV  | 380V            | 800                      | 465                      | 250                        | SIZE K |                |
| VFD500-40T28000-PV  | 380V            | 800                      | 520                      | 280                        | SIZE L |                |
| VFD500-40T31500-PV  | 380V            | 800                      | 585                      | 315                        | SIZE L |                |
| VFD500-40T35500-PV  | 380V            | 800                      | 650                      | 355                        | SIZE M |                |
| VFD500-40T40000-PV  | 380V            | 800                      | 725                      | 400                        | SIZE M |                |
| VFD500-40T45000-PV  | 380V            | 800                      | 820                      | 450                        | SIZE N |                |
| VFD500-40T50000-PV  | 380V            | 800                      | 900                      | 500                        | SIZE N |                |

## LED & LCD keypad

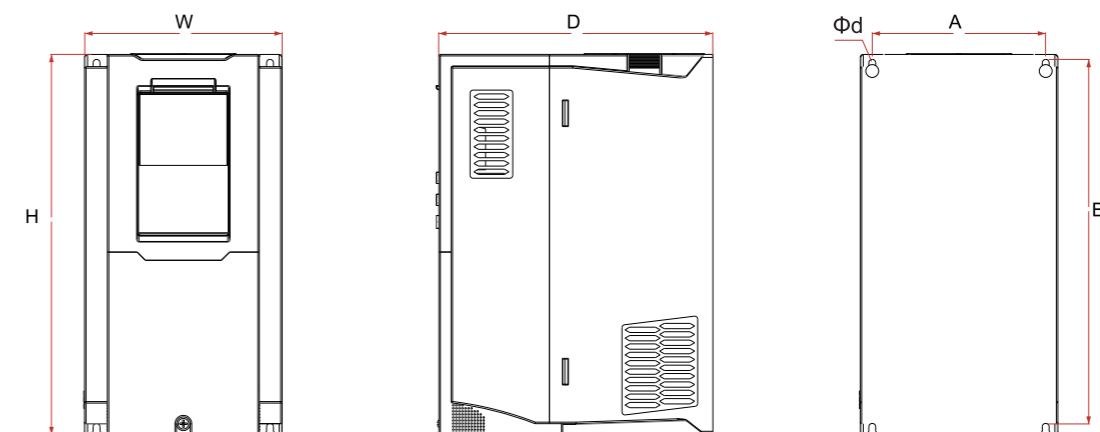
- Standard inverter are with LED keypad, LCD keypad is optional.
- LCD keypad can monitor 4 parameters at the same time. LED keypad show one parameter only.
- LCD keypad with detailed parameter explain, no need use user manual, more user friendly.
- LCD keypad with copy and update and download function. widely used for government projects and big farms.
- New version LCD and LED display for more options. New LCD with time clock. Multiple language and quick search etc. More user friendly.



# VFD500-PV Solar Pumping Inverter



## Appearance and Mounting Hole Dimension





## Product size

| SIZE   | Appearance and installation dimension mm |       |       |      |     |     |       |                 |
|--------|--|-------|-------|------|-----|-----|-------|-----------------|
|        | A  | B     | H     | H1   | W   | D   | Φd    | Mounting screws |
| SIZE A | 87                                       | 206.5 | 215   | /    | 100 | 170 | ø5.0  | M4X16           |
| SIZE B | 113                                      | 239.5 | 250   | /    | 130 | 180 | ø5.0  | M4X16           |
| SIZE C | 153                                      | 299   | 310   | /    | 170 | 193 | ø6.0  | M5X16           |
| SIZE D | 165                                      | 350   | 370   | 335  | 210 | 196 | ø6.0  | M5X16           |
| SIZE E | 218                                      | 438   | 452.5 | 424  | 260 | 230 | ø7.0  | M6X16           |
| SIZE F | 250                                      | 535   | 555   | 520  | 320 | 275 | ø10.0 | M8X20           |
| SIZE G | 280                                      | 620   | 640   | 605  | 350 | 290 | ø10.0 | M8X20           |
| SIZE H | 280                                      | 695   | 715   | 660  | 370 | 313 | ø11.0 | M8X25           |
| SIZE I | 280                                      | 705   | 725   | 670  | 360 | 338 | ø11.0 | M8X25           |
| SIZE J | 360                                      | 795   | 816   | 762  | 490 | 358 | ø11.0 | M10X25          |
| SIZE K | 360                                      | 795   | 816   | 762  | 490 | 358 | ø11.0 | M10X25          |
| SIZE L | 450                                      | 1045  | 1075  | 1005 | 550 | 450 | ø13.0 | M12X30          |
| SIZE M | 630                                      | 1013  | 1495  | 970  | 730 | 450 | ø13.0 | M12X30          |
| SIZE N | 660                                      | 1065  | 1575  | 1095 | 785 | 450 | ø13.0 | M12X30          |

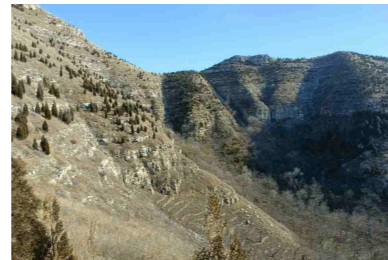
## Application scenarios



Commercial/Agricultural irrigation system



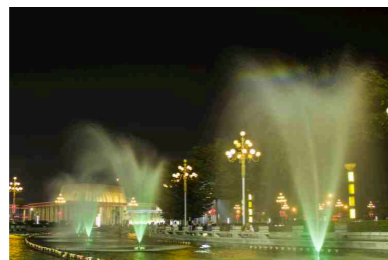
Agricultural and animal husbandry water supply system



Barren hills governance system



Agricultural greenhouse water supply system



Landscape fountain system



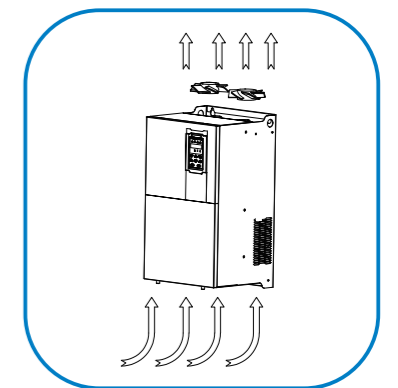
Solve water short problem

## Key features

- Maximizing power generation efficiency of solar modules with the use of advanced MPPT control technology and automatic MPPT voltage tracking
- Adjust water outflow of pumps quickly on basis of sunlight intensity change
- Automatic hibernation and wake up
  - (1) Hibernate at high water level and wake up at low water level
  - (2) Hibernate at sunrise and sunset and wake up at strong sunlight
- Built-in C3 EMC filter and DSP technology and Infineon PIM design, with functions of light weak protection, dry run and low voltage, full water warning, overvoltage and over temperature protection
- Advanced calculation for Pump flow and LCD monitoring display
- Automatic running without any commissioning in keypad control and GPRS monitoring option
- Dual supply capability with change over switch-solar and grid compatible
- Special MPPT+PID function for better and more stable water supply

## Independent duct design

- ▶ Independent air duct design, effectively preventing dust entering into inverter, causing short-circuit and other faults and improving reliability
- ▶ Use bigger air volume and long-life cooling fan effectively reduces the internal temperature rise of the inverter and ensures reliable and stable operation of inverter.



## Perfect protection system

- ▶ Designed for 10 years of maintenance free operation.
- ▶ Cooling fan, capacitors, relays, and IGBTs have been carefully selected and designed for a life expectancy up to ten years.

\* Assumes the drive is running continuously for 24 hours a day at 80% load with an ambient temperature of 40





# VFD500-PV Solar Pumping Inverter



**GPRS remote control**

## Optional GPRS monitoring device



VEIKONG solar pump inverter GPRS system is a professional monitoring system platform managing solar pump plants.

It supplies water volume monitoring and operation of inverter from anywhere at any time.

It's convenient to visit real time and historical data via web or IOS & Android APP anytime and anywhere.

This easy-to-use platform make monitoring of solar pump systems simple and convenient, far reducing operate time and monitoring costs as well.

## Installation and terminal connection

| Terminal               | Drive | GPRS module |
|------------------------|-------|-------------|
| Power terminal         | 24+   | VCC         |
|                        | COM   | GND         |
| Communication terminal | 485+  | TX1/A1+     |
|                        | 485-  | RX1/B1-     |



## GPRS operation

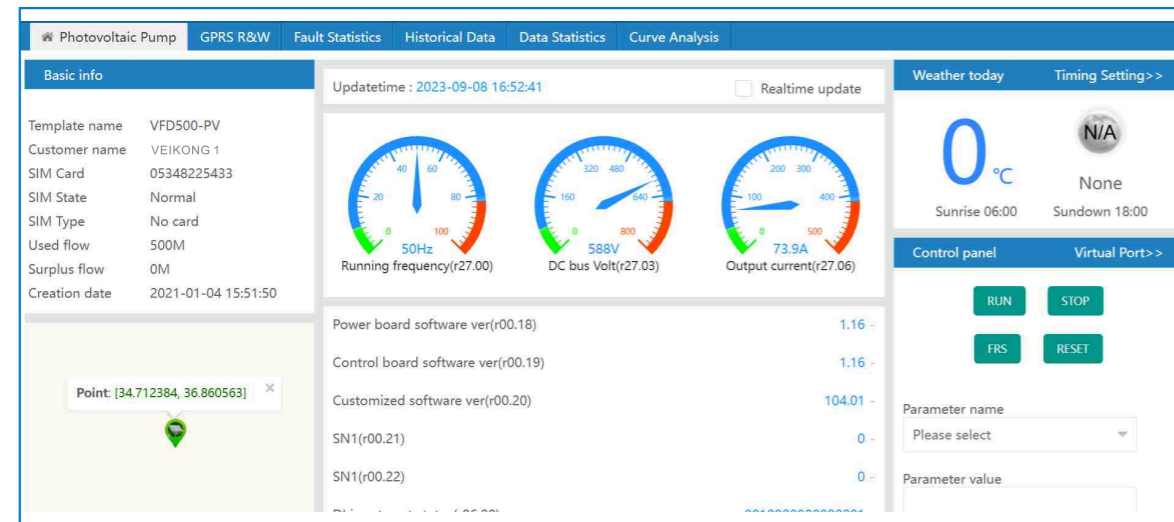
- Iphone
- Ipad
- Android devices



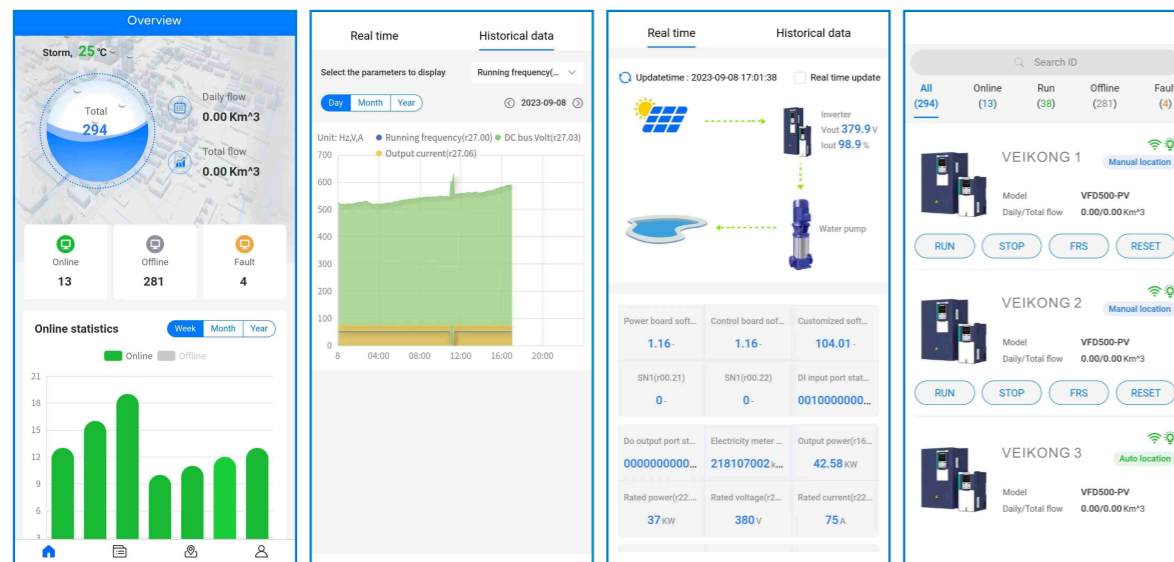


**Monitor and operate at anytime,from anywhere**

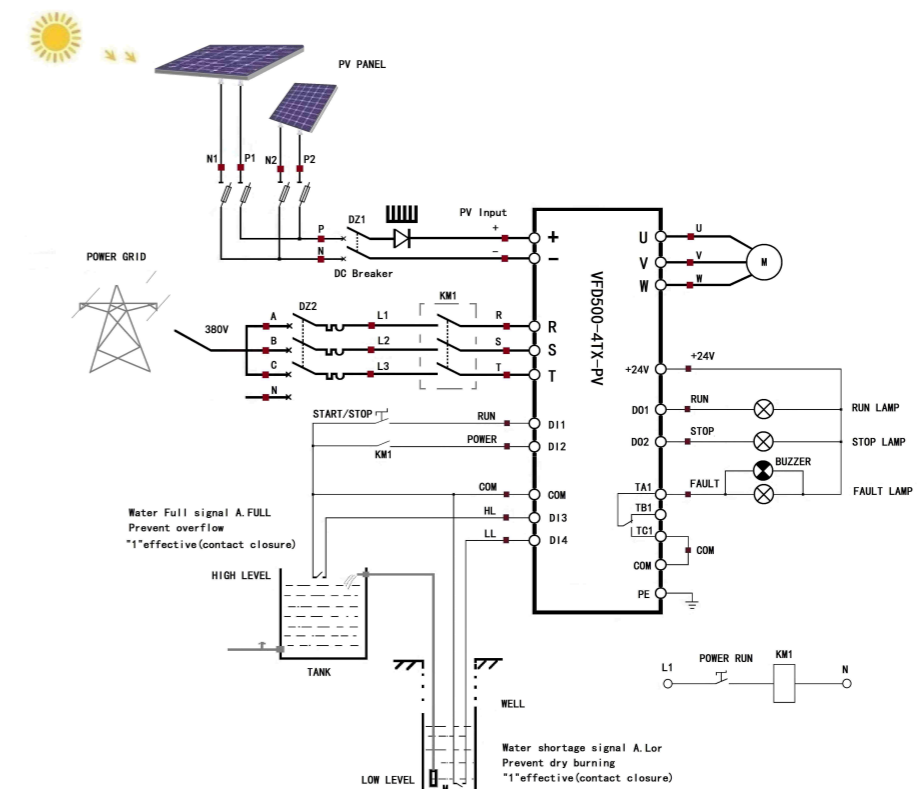
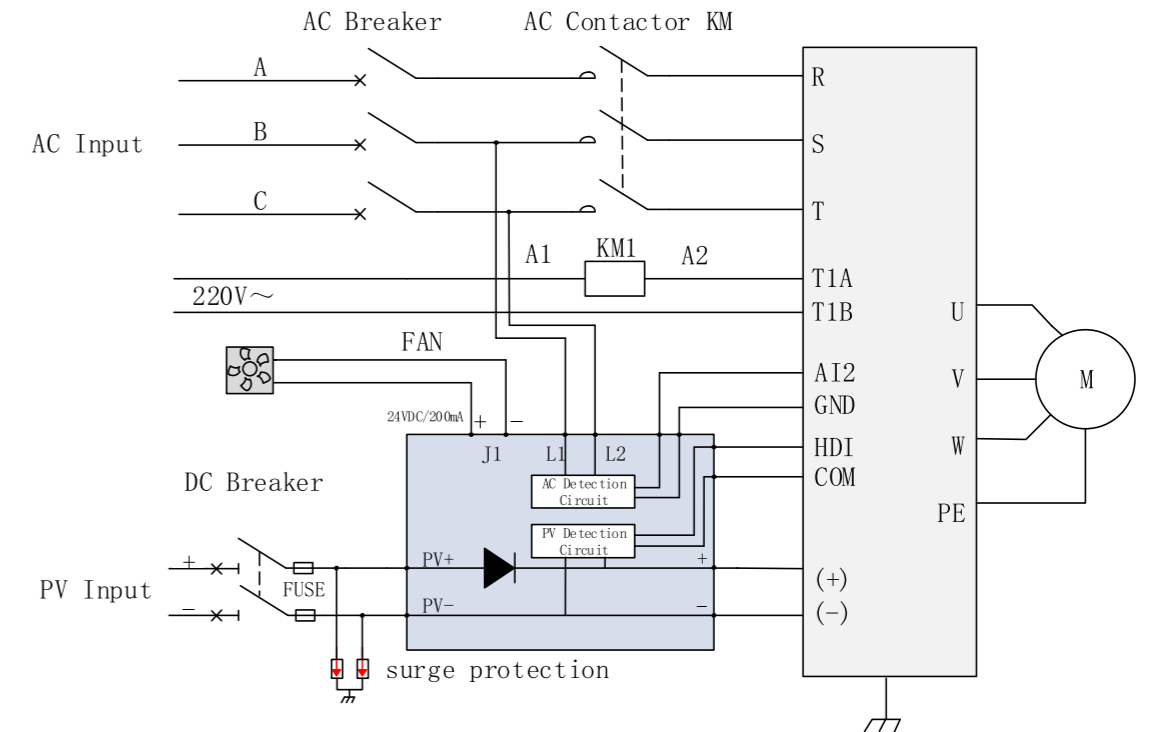
### ▶ Remote control and monitor from PC side



### ▶ Remote control and monitor from mobile phone side



## VEIKONG hybrid mode wiring map





## VEIKONG solar pump inverter applications



# VFD500-PV

## Solar Pumping Inverter



Optional output reactors



## Optional output reactors

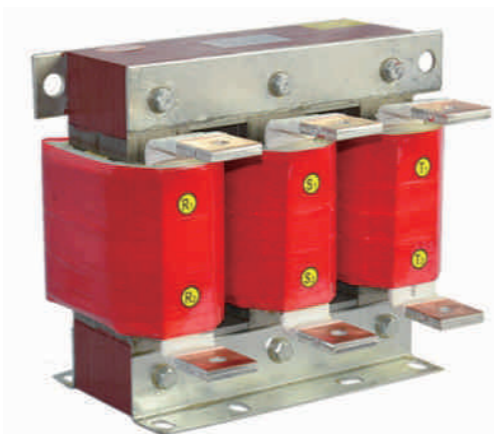
AC Output Reactor(Choke)

### Product Profile

Smoothing circuit, efficient from IGBT motor drives, so as to extending service life of electric motors. Reduce motor noise and eddy loss. Reduce the leakage current resulted from the output of high harmonic. Protect the electronic power switch within the inverters.

### Product Features

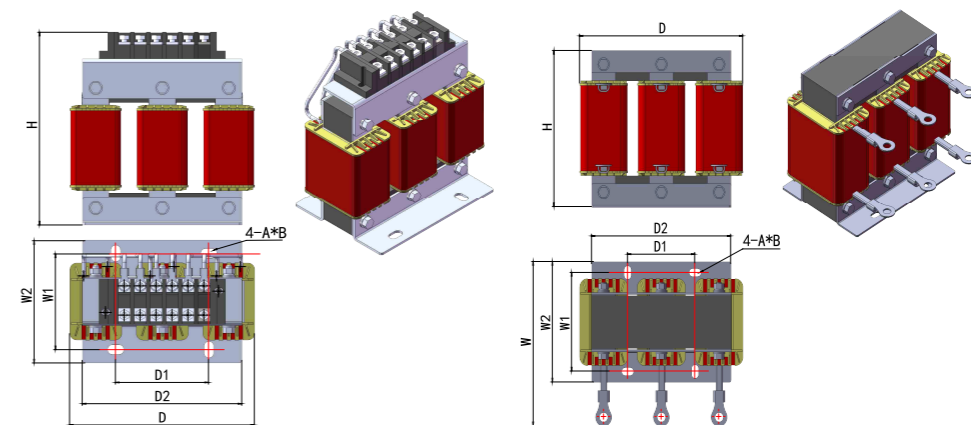
Selection of silicon steel, ferrite magnetic material of amorphous core according to the frequency of application; Excellent property due to foil winding structure, small DC resistance .strong resistance .strong resistance to electromagnetic force, good overload ability in short time ;First class insulation materials are used .which ensure products maintain reliable performance in harsh working conditions; Designed with low magnetic flux density the reactor is of high linearity, powerful overload capacity. Moreover, combined with VPI process, the noise is low.



380V AC output reactor (2% impedance)selection table

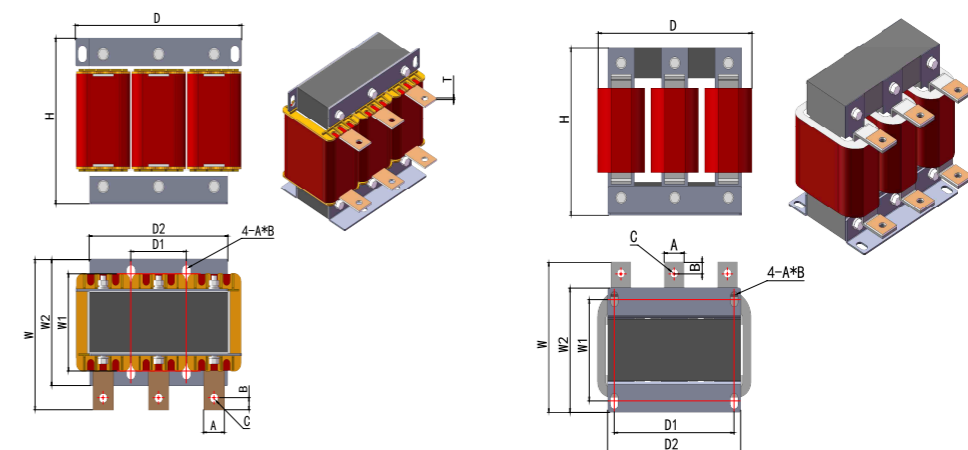
| Type                | Power (Kw) | Inductance Value (mH) | Current (A) | Weight (Kg) | Dimension (mm) |      |      |      |      |      |         |       | Connection |         | Linear aperture | Pic. NO. |
|---------------------|------------|-----------------------|-------------|-------------|----------------|------|------|------|------|------|---------|-------|------------|---------|-----------------|----------|
|                     |            |                       |             |             | D(Max)         | D1±1 | D2±2 | W±10 | W1±1 | W2±2 | H (Max) | A*B   | Terminal   | Cu flat |                 |          |
| VKS-OCL-0005-CL/4-2 | 1.5        | 2.80                  | 5           | 1.3         | 100            | 35   | 80   | /    | 59   | 77   | 125     | 7x12  | √          | /       | /               | A        |
| VKS-OCL-0007-CL/4-2 | 2.2        | 2                     | 7           | 1.4         | 100            | 35   | 80   | /    | 59   | 77   | 125     | 7x12  | √          | /       | /               | A        |
| VKS-OCL-0010-CL/4-2 | 3.7        | 1.4                   | 10          | 1.5         | 100            | 35   | 80   | /    | 59   | 77   | 125     | 7x12  | √          | /       | /               | A        |
| VKS-OCL-0015-AL/4-2 | 5.5        | 0.93                  | 15          | 2.5         | 150            | 70   | 120  | /    | 92   | 150  | 7x12    | √     | /          | /       | A               |          |
| VKS-OCL-0020-AL/4-2 | 7.5        | 0.70                  | 20          | 2.5         | 150            | 70   | 120  | /    | 72   | 92   | 150     | 7x12  | √          | /       | /               | A        |
| VKS-OCL-0030-AL/4-2 | 11         | 0.47                  | 30          | 3.5         | 180            | 70   | 145  | /    | 88   | 170  | 7x12    | √     | /          | /       | A               |          |
| VKS-OCL-0040-AL/4-2 | 15         | 0.35                  | 40          | 5           | 180            | 70   | 145  | /    | 81   | 101  | 170     | 7x12  | √          | /       | /               | A        |
| VKS-OCL-0050-AL/4-2 | 18.5       | 0.28                  | 50          | 5           | 180            | 70   | 145  | 130  | 101  | 135  | 7x12    | √     | /          | /       | B               |          |
| VKS-OCL-0060-AL/4-2 | 22         | 0.24                  | 60          | 6.5         | 180            | 70   | 145  | 140  | 90   | 110  | 145     | 7x12  | √          | /       | /               | B        |
| VKS-OCL-0080-AL/4-2 | 30         | 0.17                  | 80          | 9           | 210            | 80   | 170  | 155  | 111  | 160  | 7x12    | √     | /          | /       | B               |          |
| VKS-OCL-0090-AL/4-2 | 37         | 0.16                  | 90          | 9           | 210            | 80   | 170  | 155  | 91   | 111  | 160     | 7x12  | √          | /       | /               | B        |
| VKS-OCL-0120-AL/4-2 | 45         | 0.12                  | 120         | 13          | 245            | 80   | 200  | 160  | 130  | 210  | 12x20   | 30*3  | φ11        | /       | C               |          |
| VKS-OCL-0150-AL/4-2 | 55         | 0.095                 | 150         | 15          | 245            | 80   | 200  | 160  | 94   | 130  | 210     | 12x20 | 30*3       | φ11     | /               | C        |
| VKS-OCL-0200-AL/4-2 | 75         | 0.07                  | 200         | 20          | 245            | 80   | 200  | 185  | 156  | 210  | 12x20   | 30*3  | φ11        | /       | C               |          |
| VKS-OCL-0240-AB/4-2 | 90         | 0.056                 | 240         | 25          | 240            | 180  | 200  | 195  | 132  | 162  | 220     | 11x20 | 30*7       | φ11     | /               | D        |
| VKS-OCL-0250-AB/4-2 | 110        | 0.056                 | 250         | 25          | 240            | 180  | 200  | 195  | 162  | 220  | 11x20   | 30*7  | φ11        | /       | D               |          |
| VKS-OCL-0290-AB/4-2 | 132        | 0.048                 | 290         | 31          | 310            | 225  | 250  | 215  | 122  | 158  | 255     | 12x20 | 40*8       | φ13     | /               | E        |
| VKS-OCL-0330-AB/4-2 | 160        | 0.042                 | 330         | 32          | 310            | 225  | 250  | 215  | 158  | 255  | 12x20   | 40*8  | φ13        | /       | E               |          |
| VKS-OCL-0390-AB/4-2 | 187        | 0.036                 | 390         | 42          | 310            | 225  | 250  | 220  | 125  | 161  | 285     | 12x20 | 40*8       | φ13     | /               | E        |
| VKS-OCL-0490-AB/4-2 | 220        | 0.028                 | 490         | 45          | 310            | 225  | 250  | 220  | 161  | 285  | 12x20   | 40*8  | φ13        | /       | E               |          |
| VKS-OCL-0530-AB/4-2 | 250        | 0.026                 | 530         | 42.5        | 310            | 225  | 250  | 220  | 125  | 161  | 285     | 12x20 | 40*8       | φ13     | /               | E        |
| VKS-OCL-0600-AB/4-2 | 280        | 0.023                 | 600         | 55          | 310            | 225  | 250  | 245  | 181  | 280  | 12x20   | 40*9  | φ13        | /       | E               |          |
| VKS-OCL-0660-AB/4-2 | 315        | 0.021                 | 660         | 55          | 310            | 225  | 250  | 245  | 145  | 181  | 280     | 12x20 | 40*9       | φ13     | /               | E        |
| VKS-OCL-0800-AB/4-2 | 380        | 0.0175                | 800         | 85          | 390            | 130  | 320  | 305  | 270  | 400  | 12x20   | 50*11 | 2-φ11      | /       | G               |          |
| VKS-OCL-1000-AB/4-2 | 450        | 0.014                 | 1000        | 85          | 390            | 130  | 320  | 305  | 230  | 270  | 400     | 12x20 | 50*11      | 2-φ11   | /               | G        |
| VKS-OCL-1250-AB/4-2 | 550        | 0.011                 | 1250        | 110         | 385            | 130  | 320  | 305  | 250  | 470  | 12x20   | 60*13 | 4-φ13      | /       | F               |          |
| VKS-OCL-1600-AB/4-2 | 630        | 0.009                 | 1600        | 110         | 385            | 130  | 320  | 305  | 210  | 250  | 470     | 12x20 | 60*15      | 4-φ13   | /               | F        |

## Product Size



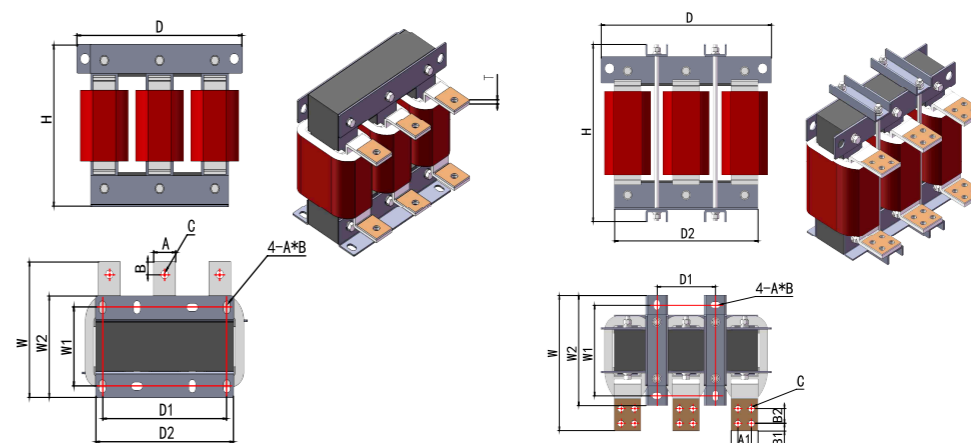
Picture A

Picture B



Picture C

Picture D



Picture E

Picture F



# VFD500-PV

## Solar Pumping Inverter



Optional sine wave filter

## Sine wave Filters

### ■ Descriptions



Sine wave filters have been specially designed to improve the wave form and avoid over voltages in the motors of VSD system. These low-pass filters are installed in inverters with PWM output, between the frequency inverter and the motor. Switching IGBT (isolated gate bipolar transistor) to high frequency causes an output voltage with peaks that can reach 1300 V (or more) in terminals and coils of the motor.

These constant voltage values age the motor and decrease the performance of the coils, also wearing and pitting bearings, causing overheating and unnecessary noises and the transmission of interferences through cables. This effect becomes more obvious the greater the distance between the inverter and the motor.

### ■ Functions

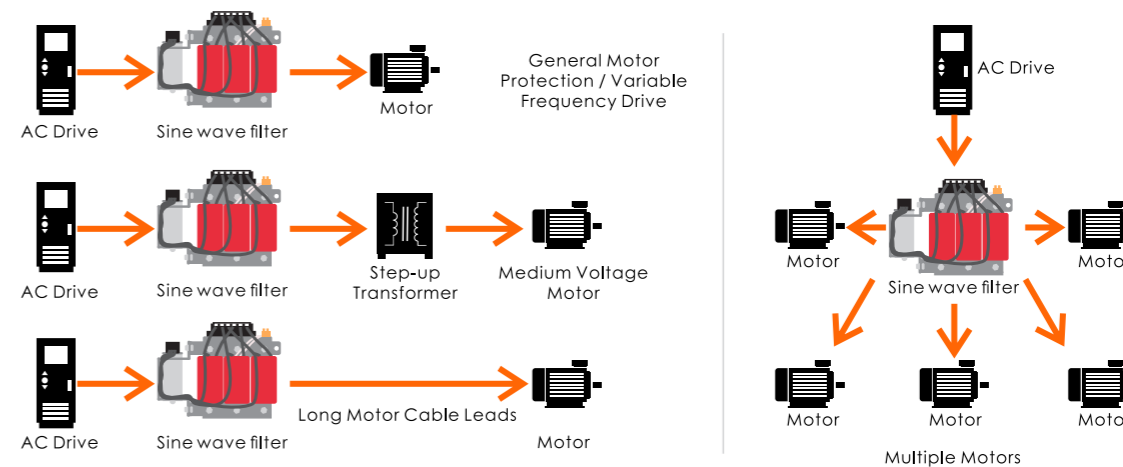


- Reduction of the overvoltage peaks caused by PWM and, therefore, a lower wear of motor insulation systems and bearings;
- Reduction of motor noise and improves motor efficiency;
- Improve the quality of the output wave of the PWM (pulse width modulator), reduces discharge currents driven by pulse frequency, especially in long lines connected to the motor. Recommended for up to 500m motor cable lengths with filter.
- Attenuation of the interference emissions radiated by the conductors between the modulator and motor and improves the entire EMC load on the equipment.

### ■ Technical Standards

- Technical Standards
- Capacitors: CEI EN 60831-1/2, IEC 831-1/2
- Industrial network affected by harmonics: CEI EN 61642
- Equipment: CEI EN 60439-1, IEC 439-1, ICE 60939
- Systems: EN 60439, EN 60831, EN 50081-1 EN50081-2. class A

### ■ Applications



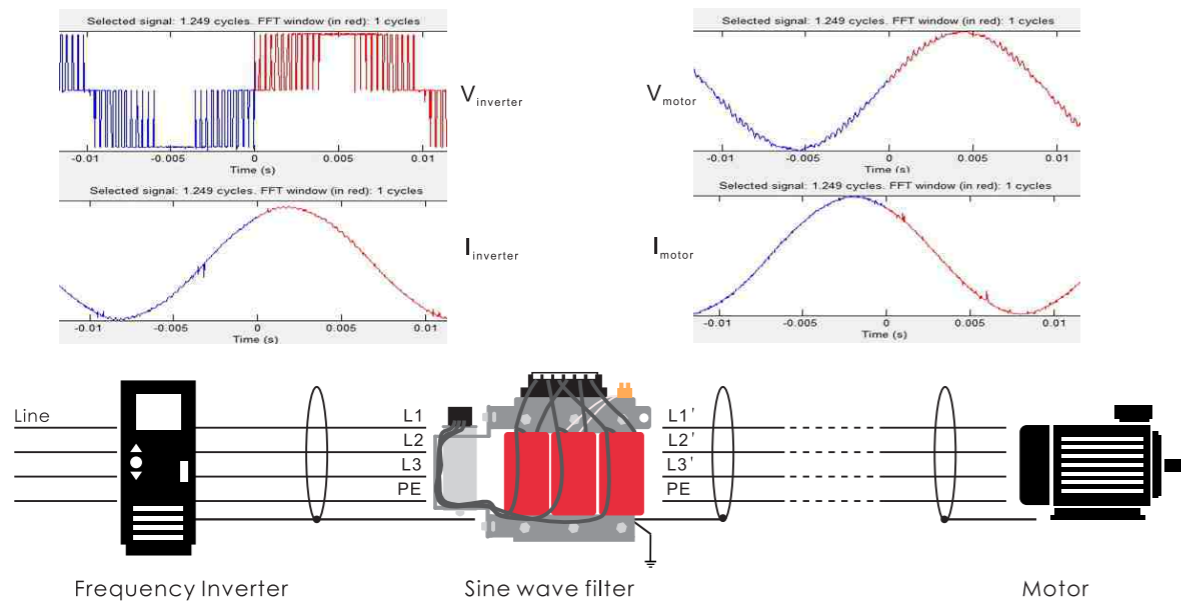


## Features

| Main Characteristics                   |  |
|--|--|
| Nominal system voltage (ph-ph)         | 3x 380±10% (Others on request)               |
| Operating frequency                    | 5-120Hz standard (200Hz -1000Hz on request.) |
| Switching frequency                    | 2k to 16kHz                                  |
| Rated load power (P)                   | 1.5 to 630kW                                 |
| Nominal current (I)                    | 3.3A to 1209A                                |
| Residual ripple voltage THD            | <5%  |
| Standard voltage drop at rated current | 4% (50Hz)                                    |
| Maximum permanent overload             | 1.2 times rated current                      |
| Maximum transient overload             | 2.0 times rated current                      |

| Design features             |                          |
|-----------------------------|--------------------------|
| Cabinet                     | On request               |
| Degree of protection        | IP 00 (other on request) |
| Construction and connection | Terminals or Copper bar  |
| Ventilation                 | Natural                  |
| Mounting                    | On the floor             |
| Installation                | Indoor standards         |
| Operating temperature       | Ambient : -25°C to +40°C |
| Relative humidity           | 80 %                     |

## Block schematic



## Selection Table

| Filter Model      | Picture NO. | System Voltage(±10%) | Motor drive rating @50Hz (kw) | Rated Current (A) | Switching frequency (kHz) | Connections |            | Weight (kg) | Dimension (±5mm) |     |     |     |     |     |       |
|-------------------|-------------|----------------------|-------------------------------|-------------------|---------------------------|-------------|------------|-------------|------------------|-----|-----|-----|-----|-----|-------|
|                   |             |                      |                               |                   |                           | Terminal    | Copper Bar |             | D                | D1  | W   | W1  | W2  | H   | A*B   |
| VKS-SF-0003-4A/05 | 1           | 3×380VAC             | 1.5                           | 3.3               | ≥6                        | √           |            | 7.0         | 150              | 72  | 205 | 150 | /   | 200 | 7*12  |
| VKS-SF-0006-4A/05 | 1           | 3×380VAC             | 2.2                           | 6                 | ≥6                        | √           |            | 9.7         | 165              | 92  | 205 | 150 | /   | 200 | 7*12  |
| VKS-SF-0008-4A/05 | 1           | 3×380VAC             | 3.7                           | 8                 | ≥6                        | √           |            | 10.4        | 185              | 92  | 205 | 150 | /   | 200 | 7*12  |
| VKS-SF-0013-4A/05 | 2           | 3×380VAC             | 5.5                           | 13                | ≥5                        | √           |            | 9.7         | 185              | 92  | 205 | 150 | /   | 200 | 7*12  |
| VKS-SF-0017-4A/05 | 3           | 3×380VAC             | 7.5                           | 17                | ≥5                        | √           |            | 16.2        | 200              | 100 | 245 | 180 | /   | 260 | 10*16 |
| VKS-SF-0024-4A/05 | 3           | 3×380VAC             | 11                            | 24                | ≥4                        | √           |            | 16.6        | 220              | 100 | 245 | 180 | /   | 260 | 10*16 |
| VKS-SF-0032-4A/05 | 3           | 3×380VAC             | 15                            | 32                | ≥4                        | √           |            | 21.5        | 240              | 122 | 245 | 180 | /   | 260 | 10*16 |
| VKS-SF-0038-4A/05 | 3           | 3×380VAC             | 18.5                          | 38                | ≥4                        | √           |            | 25.5        | 240              | 121 | 275 | 200 | /   | 270 | 10*16 |
| VKS-SF-0048-4A/05 | 4           | 3×380VAC             | 22                            | 48                | ≥4                        | √           |            | 28.2        | 170              | 131 | 420 | 100 | 200 | 270 | 10*16 |
| VKS-SF-0063-4A/05 | 4           | 3×380VAC             | 30                            | 63                | ≥3                        | √           |            | 38.3        | 190              | 125 | 460 | 100 | 225 | 325 | 12*20 |
| VKS-SF-0076-4A/05 | 4           | 3×380VAC             | 37                            | 76                | ≥3                        | √           |            | 42          | 200              | 134 | 460 | 100 | 225 | 325 | 12*20 |
| VKS-SF-0091-4A/05 | 4           | 3×380VAC             | 45                            | 91                | ≥3                        | √           |            | 49.7        | 220              | 154 | 460 | 100 | 225 | 325 | 12*20 |
| VKS-SF-0116-4A/05 | 5           | 3×380VAC             | 55                            | 116               | ≥3                        |             | √          | 78          | 260              | 190 | 600 | 150 | /   | 430 | 12*20 |
| VKS-SF-0148-4A/05 | 5           | 3×380VAC             | 75                            | 148               | ≥3                        |             | √          | 75          | 260              | 190 | 600 | 150 | /   | 430 | 12*20 |
| VKS-SF-0181-4A/05 | 6           | 3×380VAC             | 90                            | 181               | ≥3                        |             | √          | 88.5        | 390              | 190 | 460 | 150 | /   | 480 | 12*20 |
| VKS-SF-0214-4A/05 | 6           | 3×380VAC             | 110                           | 214               | ≥3                        |             | √          | 87.7        | 390              | 190 | 460 | 150 | /   | 480 | 12*20 |
| VKS-SF-0262-4A/05 | 7           | 3×380VAC             | 132                           | 262               | ≥3                        |             | √          | 100.6       | 410              | 280 | 460 | 150 | /   | 525 | 12*20 |
| VKS-SF-0317-4A/05 | 6           | 3×380VAC             | 160                           | 317               | ≥3                        |             | √          | 111         | 420              | 200 | 460 | 150 | /   | 540 | 12*20 |
| VKS-SF-0352-4A/05 | 8           | 3×380VAC             | 185                           | 352               | ≥3                        |             | √          | 120         | 430              | 300 | 470 | 150 | /   | 540 | 12*20 |
| VKS-SF-0413-4A/05 | 9           | 3×380VAC             | 200                           | 413               | ≥2                        |             | √          | 150         | 460              | 300 | 500 | 160 | /   | 550 | 12*20 |
| VKS-SF-0419-4A/05 | 9           | 3×380VAC             | 220                           | 419               | ≥2                        |             | √          | 150         | 460              | 300 | 500 | 160 | /   | 550 | 12*20 |
| VKS-SF-0484-4A/05 | 10          | 3×380VAC             | 250                           | 484               | ≥2                        |             | √          | 164         | 550              | 300 | 500 | 160 | /   | 580 | 12*20 |
| VKS-SF-0531-4A/05 | 9           | 3×380VAC             | 280                           | 531               | ≥2                        |             | √          | 178         | 480              | 300 | 500 | 160 | /   | 580 | 12*20 |
| VKS-SF-0605-4A/05 | 11          | 3×380VAC             | 315                           | 605               | ≥2                        |             | √          | 256         | 530              | 300 | 570 | 190 | /   | 620 | 12*20 |
| VKS-SF-0666-4A/05 | 11          | 3×380VAC             | 350                           | 666               | ≥2                        |             | √          | 274         | 540              | 300 | 570 | 190 | /   | 620 | 12*20 |
| VKS-SF-0721-4A/05 | 12          | 3×380VAC             | 400                           | 721               | ≥2                        |             | √          | 292         | 550              | 280 | 640 | 440 | /   | 700 | 12*20 |
| VKS-SF-0807-4A/05 | 12          | 3×380VAC             | 450                           | 807               | ≥2                        |             | √          | 310         | 580              | 280 | 640 | 440 | /   | 710 | 12*20 |
| VKS-SF-0888-4A/05 | 13          | 3×380VAC             | 500                           | 888               | ≥2                        |             | √          | 328         | 670              | 320 | 630 | 210 | /   | 710 | 12*20 |
| VKS-SF-0999-4A/05 | 13          | 3×380VAC             | 560                           | 999               | ≥2                        |             | √          | 383         | 690              | 320 | 630 | 210 | /   | 740 | 12*20 |
| VKS-SF-1209-4A/05 | 14          | 3×380VAC             | 630                           | 1209              | ≥2                        |             | √          | 473         | 720              | 350 | 690 | 230 | /   | 760 | 12*20 |

- Selection Recommendation:** It's compulsory to collect all network conditions
- Rated values and service type of the load to the filter
  - Rated values of other non-line loads
  - Indication of the point where the filter has to be installed
  - Presence and type of the power factor equipment in the network
  - Motor frequency, Switching frequency and fundamental operating frequency

■ For more technical details, please contact our sales representatives

Model Rules:



THDv,05 for THDv ≤ 5%  
 Manufacture processing codes  
 Rated current  
 Series name