

VEIKONG

ShenZhen VEIKONG Electric CO., Ltd.

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ShenZhen VEIKONG Electric CO., Ltd.



CHINA SHENZHEN

Company Profile

Automatic production line



Brife introduction

Shenzhen Veikong Electric CO.,Ltd. a high-tech enterprise which has been specializing in researching, manufacturing and trading high, medium and low voltage inverter, providing our clients with integrated system solutions. We have professional R&D and devoted management team with more than 20 years' experience of theoretical research, product development and quality management. Veikong also is one of the first independent AC drives company in China. We adopt SPWM, sensorless vector control and vector and torque control technology in our VFD series inverters, which has reached the international advanced standard. The products can directly replace and be equivalent of Europe and the United States, Japan and other brands, providing customers with a powerful technical support. We have achieved popularity and qualification in VFD industry. Quality is the life of enterprise.

Veikong drives keeps following ISO9001 standard to manage and supervise quality.Our products have passed CE certification and other technical approval. To better meet customer requirements and market needs, Veikong drives keeps on upgrading new technologies and new products.

The customer is the source of enterprise.We are honored to put top priority on customers' requirements as well as achieving their requirements. Our products have been widely used in petroleum, chemical, melting, hoisting, electric power, building materials, water supply, plastics, textiles, printing, packing and other industries to create value for customers.



















Automatic DT test platform

Automatic PCBA ATE test platform



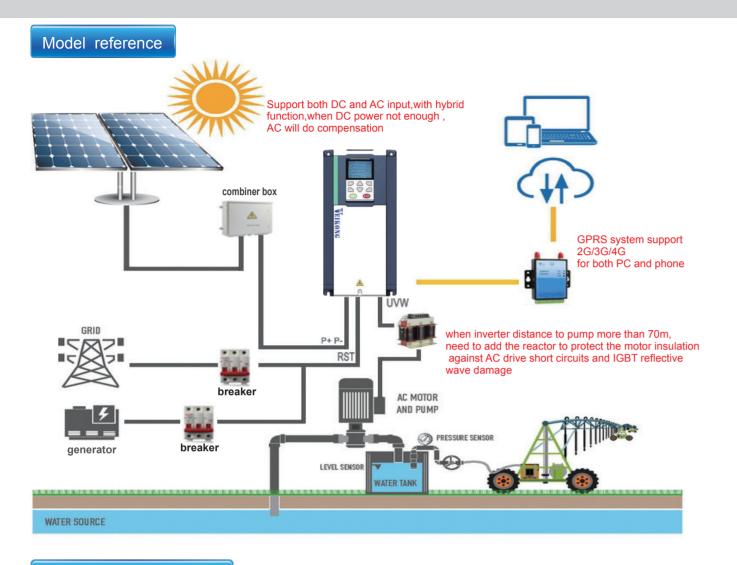


PCBA Production Line and Test

Assemble



Automatic FLASH test platform



Electrical Specifications

| Voltage | 220V | 380V | | | |
|--------------------------------|-----------------------------------|-------------------------|--|--|--|
| Max input DC voltage | 450V | 800V | | | |
| Recommended MPPT voltage range | 250~350VDC | 400~600VDC | | | |
| Recommended input voltage | 305V | 530V | | | |
| MPPT efficiency | 99% | | | | |
| Input channel | 2 | | | | |
| Rated output voltage | 3-phase 220VAC | 3-phase 380VAC | | | |
| Output frequency range | 0~60Hz | | | | |
| Max efficiency of the machine | 97% | | | | |
| Ambient temperature range | -10 °C~50 °C, derating if the ter | nperatureis above 40 °C | | | |
| Cooling method | Air cooling | | | | |
| Protection degree | IP20 | | | | |
| Altitude | Below 1000m; above 1% for even | ery additional 100m. | | | |
| Standard | CE IEC | | | | |

| 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 | 450 | 7 | 1.5 | SIZE A | 85000 |
| VFD500M-20T00220-PV | 220V | 450 | 10.6 | 2.2 | SIZE A | |
| VFD500M-40T00150-PV | 380V | 800 | 4.2 | 1.5 | SIZE A | |
| VFD500M-40T00220-PV | 380V | 800 | 5.6 | 2.2 | SIZE A | |
| VFD500-20T00150-PV | 220V | 450 | 7 | 1.5 | SIZE A | |
| VFD500-20T00220-PV | 220V | 450 | | | | |
| VFD500-20T00400-PV | 220V | 450 | 17 | 4 | SIZE A | 15000 |
| 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 | VEIRONG |
| 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 | The second |
| VFD500-40T13200-PV | 380V | 800 | 253 | 132 | SIZE I | |
| VFD500-40T16000-PV | 380V | 800 | 304 | 160 | SIZE I | l l |
| 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 | |

LED & LCD keypad

1. Standard inverter are with LED keypad,LCD keypad is optional.

2. LCD keypad can monitor 4 parameters at the same time. LED keypad show one parameter only.

3、LCD keypad with detailed parameter explain,no need use user manual ,more user 💿 💿 🔊 friendly.

4. LCD keypad with copy and update and download function.widely used for government projects and big farms.



www.veikong-electric.com



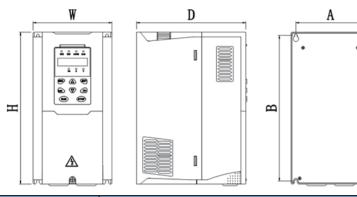
customized solar pump control panel

RIN STOP

STOP

RUN

Appearance and Mounting Hole Dimension



| | | | Appeara | ance and ir | nstallation dir | mension m | m | |
|--------|-----|-------|---------|-------------|-----------------|-----------|-------|--------------------|
| SIZE | А | В | Н | H1 | W | D | Φd | Mounting screws |
| SIZE A | 87 | 206.5 | 215 | / | 100 | 170 | ø5.0 | M4X16 |
| SIZE B | 113 | 239.5 | 250 | 1 | 130 | 180 | ø5.0 | M4X16 |
| SIZE C | 153 | 299 | 310 | 1 | 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 |

Electrical Specifications



Commercial/Agricultural irrigation system



Agricultural greenhouse water 5 supply system



Agricultural and animal husbandry water supply system



Landscape fountain system



Barren hills governance 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 lever(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 overtemperature protection
- Advanced calculation for Pump flow and LCD monitoring display
- Automatic running without any commisioning in keypad control and GPRS monitoring option(as option)
- Dual supply capability with change over switch solar and grid compatible

Independent duct design

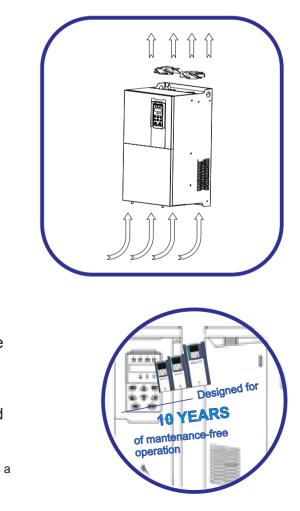
- Independent air duct design, effectively preventing dust entering inverter, causing short-circuit and other faults and improving reliability
- Use bigger air volume and long life cooling fan effectively reduces the internal temperature rise of the inverter and ensures reliable and stable operation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





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

Optional GPRS monitoring device

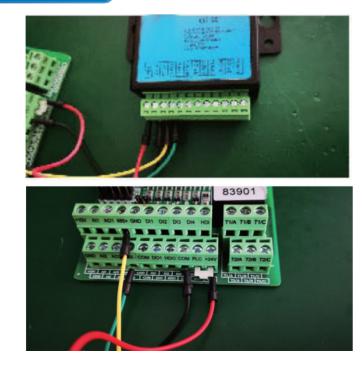
- It supplies water volume monitoring and operation of inverter from anywhere at anytime.
- It's convenient to visit real time and historical data via web or IOS & Android APP anytime and anywhere.
- This easy-to-use platform make monitoring of solar pump systems simple and convenient, far reducing operate time and monitoring costs as well.



Installation and terminal connection

| terminal | drive | Gprs module |
|------------------------|-------|-------------|
| Power terminal | 24+ | VCC |
| | СОМ | GND |
| Communication terminal | 485+ | TX1/A1+ |
| | 485- | RX1/B1- |





GPRS operation



– Remote control and monitor from PC side -

| alysis | Curve Ana | Data Statistics | Historical Da | Fault Statistics | Photovoltaic Pump |
|--------------------------------|--------------|--------------------------------|---------------|-------------------|-------------------|
| | 24.16.24.26 | 2020.10 | | | Basic info |
| D | -24 10:34:30 | atetime : 2020-10 | | 000000002455 | GPRS ID 00 |
| | | 1.000 | | IC002 | Template name M |
| A Manual P | | an and a second | | D_veikong | Customer name VF |
| 520 480 | | 40 60 | | | SIM Card |
| 160 64 | 80 - | 20 | | ormal | SIM State No |
| | | 100 | | o card | SIM Type No |
| DC bus Volt(r27 | (+27.00) | Running frequency | | MOO | Used flow 50 |
| DC bus void(121 | (127.00) | Running frequency | | N | Surplus flow 0N |
| | | | | 20-07-22 16:03:35 | Creation date 20 |
| 0 - Contr | ver(r | er board software | f | | |
| | | | | | |
| 0 - SN1(r | ver(r | omized software | (| | |
| 0 - SN1(r 0 - DI inp | ver(r | (r00.22) | | | |
| | | | S | | |
| 0 - DI inp | (r07 | (r00.22) | 5 | | |
| 0 - DI inp 000000000 Electr | (r07 | (r00.22) output port status | 2 | | |

| * 🖯 | 🔳 🖗 In. (| 下午5:01 | | | \$ 5 |) at S |
|--------------------------------|-----------|-----------|---------------|--------------|------------|--------|
| 000000002455 | | < | 0000000 | 00002455 | | |
| I Registers Reports Realtime | Video | Control | Registers | Reports | Realtime | Vic |
| N STOP FRS | RESET | Update t | ime | | 2020-07-27 | 17:01 |
| RUN(00:00:00) - STOP(00:00:00) | > | Power b | oard softwa | re ver(r00.1 | 18) | 1. |
| RUN(00:00:00) - STOP(00:00:00) | > | Control I | board softwa | are ver(r00 | .19) | 1. |
| RUN(00:00:00) - STOP(00:00:00) | > | Customi | zed softwar | e ver(r00.2 | 0) | 1 |
| KUN(UU.UU.UU) - STOP(UU.UU.UU) | | SN1(r00 | .21) | | | |
| RUN(00:00:00) - STOP(00:00:00) | > | SN1(r00 | .22) | | | |
| RUN(00:00:00) - STOP(00:00:00) | > | DI input | port status(r | 06.00) | 0000000000 | 0000 |
| RUN(00:00:00) - STOP(00:00:00) | > | Do outpi | ut port statu | s(r07.00) | 000000000 | 0000 |
| RUN(00:00:00) - STOP(00:00:00) | > | Electrici | ty meter cou | nt(r16.00) | 1: | 3312 |
| RUN(00:00:00) - STOP(00:00:00) | > | Output p | ower(r16.02 | !) | | 0.62 |
| | 1 | Rated po | ower(r22.16) | | | 4 |
| | | | | | | |

0



| | | Weather today | Timing Setting>> |
|---------------------|-------------|-----------------------|---------------------------|
| | 400 500 | 24 . Sunrise 06:25 | Overcast Sundown 17:51 |
|) Output curr | | Control panel | Virtual Port>> |
| board software ver | 0 - | RUN | STOP |
| .21) | 0 - | FRS | RESET |
| port status(r06.00) | 00000000 | Parameter name | |
| ty meter count(r16 | 0 kwh | Please select | * |
| ower(r22.16) | 0 KW | Parameter value | |
| urrent(r22.18) | 0 A | | |
| type(r25.21) | 0 - | Read | Set |

| < | 0000000 | 0002455 | | | | | | |
|-----------|-------------------------------|-------------|-----------|-----------------------------|--|--|--|--|
| Control | Registers | Reports | Realtime | Video | | | | |
| DC bus \ | /olt(r27.03)(1 | *8) | | 453 ∨ | | | | |
| Output v | oltage(r27.0 | 5) | | 162.5 V | | | | |
| Output c | urrent(r27.00 | 5) | | 4.9 A | | | | |
| Output c | urrent perce | ntage(r27.0 | 07) | 52.1 % | | | | |
| Drives ru | inning mode | status 1(| 00001100 | 00000101 - | | | | |
| Drives ru | inning mode | status 2(| 00000000 | 0000000 - | | | | |
| Run time | e monitoring(| (r27.13) | | 132 min | | | | |
| Accumla | ited power o | n time(r27. | 14) | 10 H | | | | |
| Accumla | ited running | time(r27.1 | 5) | 3 H | | | | |
| Heat sin | Heat sink temperature(r27.18) | | | | | | | |
| Today's I | Today's Pumping flow(r47.11) | | | | | | | |
| Cumlativ | e Pumping f | low Volum | e(r47.12) | 16131 m ³ | | | | |

Optional output reactors

AC Output Reactor(Choke)



(E)

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 .More over, combined with VPI process, the noise is low.

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

| Turne | Power | Inductance | Current | Weight | | | | Dimens | ion 尺寸 | (mm) | | | Conne | ection | Linear | Pic. NO. |
|---------------------|-------|---------------|----------------|--------|--------|------|------|--------|--------|------|---------|-------|--------------|---------|----------|----------|
| Туре | (Kw) | Value (mH) | Current (A) | (Kg) | D(Max) | D1±1 | D2±2 | W±10 | W1±1 | W2±2 | H (Max) | A*B | Terminal | Cu flat | aperture | PIC. NO |
| /KS-OCL-0005-CL/4-2 | 1.5 | 2.80 | 5 | 1.3 | 100 | 35 | 80 | / | 59 | 77 | 125 | 7x12 | √ | | / | А |
| /KS-OCL-0007-CL/4-2 | 2.2 | 2 | 7 | 1.4 | 100 | 35 | 80 | / | 59 | 77 | 125 | 7x12 | \checkmark | | / | А |
| /KS-OCL-0010-CL/4-2 | 3.7 | 1.4 | 10 | 1.5 | 100 | 35 | 80 | / | 59 | 77 | 125 | 7x12 | √ | | / | А |
| /KS-OCL-0015-AL/4-2 | 5.5 | 0.93 | 15 | 2.5 | 150 | 70 | 120 | / | 72 | 92 | 150 | 7x12 | \checkmark | | / | Α |
| /KS-OCL-0020-AL/4-2 | 7.5 | 0.70 | 20 | 2.5 | 150 | 70 | 120 | / | 72 | 92 | 150 | 7x12 | √ | | / | А |
| /KS-OCL-0030-AL/4-2 | 11 | 0.47 | 30 | 3.5 | 180 | 70 | 145 | / | 68 | 88 | 170 | 7x12 | \checkmark | | / | Α |
| /KS-OCL-0040-AL/4-2 | 15 | 0.35 | 40 | 5 | 180 | 70 | 145 | / | 81 | 101 | 170 | 7x12 | √ | | / | А |
| /KS-OCL-0050-AL/4-2 | 18.5 | 0.28 | 50 | 5 | 180 | 70 | 145 | 130 | 81 | 101 | 135 | 7x12 | \checkmark | | / | В |
| /KS-OCL-0060-AL/4-2 | 22 | 0.24 | 60 | 6.5 | 180 | 70 | 145 | 140 | 90 | 110 | 145 | 7x12 | \checkmark | | / | В |
| /KS-OCL-0080-AL/4-2 | 30 | 0.17 | 80 | 9 | 210 | 80 | 170 | 155 | 91 | 111 | 160 | 7x12 | √ | | / | В |
| /KS-OCL-0090-AL/4-2 | 37 | 0.16 | 90 | 9 | 210 | 80 | 170 | 155 | 91 | 111 | 160 | 7x12 | \checkmark | | / | В |
| /KS-OCL-0120-AL/4-2 | 45 | 0.12 | 120 | 13 | 245 | 80 | 200 | 160 | 94 | 130 | 210 | 12x20 | | 30*3 | φ11 | С |
| /KS-OCL-0150-AL/4-2 | 55 | 0.095 | 150 | 15 | 245 | 80 | 200 | 160 | 94 | 130 | 210 | 12x20 | | 30*3 | φ11 | С |
| /KS-OCL-0200-AL/4-2 | 75 | 0.07 | 200 | 20 | 245 | 80 | 200 | 185 | 120 | 156 | 210 | 12x20 | | 30*3 | φ11 | С |
| KS-OCL-0240-AB/4-2 | 90 | 0.056 | 240 | 25 | 240 | 180 | 200 | 195 | 132 | 162 | 220 | 11x20 | | 30*7 | φ11 | D |
| KS-OCL-0250-AB/4-2 | 110 | 0.056 | 250 | 25 | 240 | 180 | 200 | 195 | 132 | 162 | 220 | 11x20 | | 30*7 | φ11 | D |
| /KS-OCL-0290-AB/4-2 | 132 | 0.048 | 290 | 31 | 310 | 225 | 250 | 215 | 122 | 158 | 255 | 12x20 | | 40*8 | φ13 | E |
| /KS-OCL-0330-AB/4-2 | 160 | 0.042 | 330 | 32 | 310 | 225 | 250 | 215 | 122 | 158 | 255 | 12x20 | | 40*8 | φ13 | E |
| /KS-OCL-0390-AB/4-2 | 187 | 0.036 | 390 | 42 | 310 | 225 | 250 | 220 | 125 | 161 | 285 | 12x20 | | 40*8 | φ13 | E |
| /KS-OCL-0490-AB/4-2 | 220 | 0.028 | 490 | 45 | 310 | 225 | 250 | 220 | 125 | 161 | 285 | 12x20 | | 40*8 | φ13 | E |
| KS-OCL-0530-AB/4-2 | 250 | 0.026 | 530 | 42.5 | 310 | 225 | 250 | 220 | 125 | 161 | 285 | 12x20 | | 40*8 | φ13 | E |
| /KS-OCL-0600-AB/4-2 | 280 | 0.023 | 600 | 55 | 310 | 225 | 250 | 245 | 145 | 181 | 280 | 12x20 | | 40*9 | φ13 | E |
| /KS-OCL-0660-AB/4-2 | 315 | 0.021 | 660 | 55 | 310 | 225 | 250 | 245 | 145 | 181 | 280 | 12x20 | | 40*9 | φ13 | E |
| KS-OCL-0800-AB/4-2 | 380 | 0.0175 | 800 | 85 | 390 | 130 | 320 | 305 | 230 | 270 | 400 | 12x20 | | 50*11 | 2-φ11 | G |
| /KS-OCL-1000-AB/4-2 | 450 | 0.014 | 1000 | 85 | 390 | 130 | 320 | 305 | 230 | 270 | 400 | 12x20 | | 50*11 | 2-φ11 | G |
| KS-OCL-1250-AB/4-2 | 550 | 0.011 | 1250 | 110 | 385 | 130 | 320 | 305 | 210 | 250 | 470 | 12x20 | | 60*13 | 4-φ13 | F |
| /KS-OCL-1600-AB/4-2 | 630 | 0.009 | 1600 | 110 | 385 | 130 | 320 | 305 | 210 | 250 | 470 | 12x20 | | 60*15 | 4-φ13 | F |

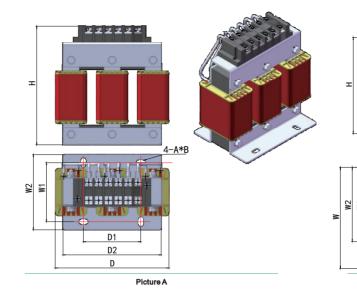
 Note:
 (1) Picture C
 (Tolerance) D:max D1:±1 D2±2 W:max W1:±2 W2:±2 H:max H1:±5 H2:±5 E±10,(others)±0.5mm;

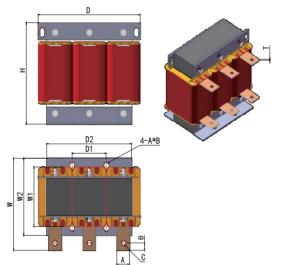
 Picture D
 (Tolerance) D:max D1:±1 D2±2 W:max W1:±2 W2:±2 H:max H1:±5 H2:±5 E±10,(others)±0.5mm.

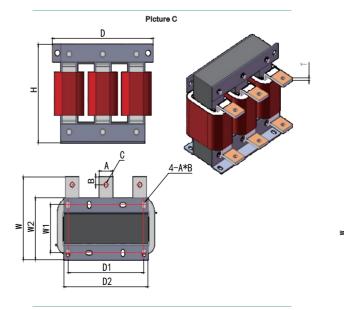
 (2) Can be customized.
 (2) Can be customized.

(3) Class H Can be customized.



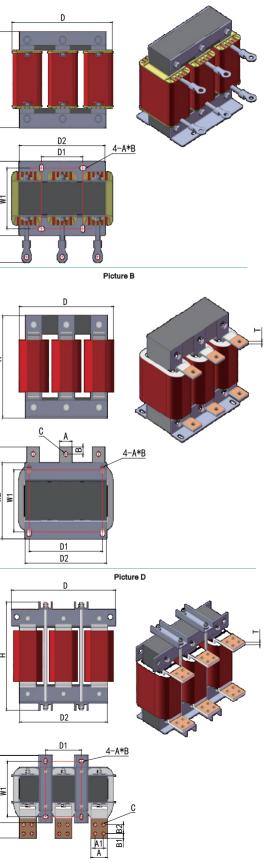






Picture E





Picture F