



EN500/EN600 High Performance Flux Vector Control Inverter

Shenzhen Encom Electric Technologies CO.,LTD.

- 5-6F, Bldg.4 Minqi Technology Park, Lishan Rd., Nanshan Area, Shenzhen 518055, China
- +86-755-26984485
- +86-755-26985120
- encvfd@encvfd.com
- www.encvfd.com
- We have the copyright and prohibit any unauthorized copying You can access and download all our ENC product brochures and manuals on our company website.











About us

Compan

Company introduction

Shenzhen Encom Electric Technologies CO., LTD is a state-level high-tech enterprise with independent intellectual property rights, focusing on industrial automation products' development, production and sales. The main products include frequency inverter/ac drive, servo controller, PLC, new energy systems.

ENC company was established in 2004, has passed ISO9001: 2008 quality management system certification and the European Union CE certification, won the National Innovation Fund, the Shenzhen strategic emerging industries fund, product innovation award, the most investment value award and repeatedly won "China top ten low-voltage inverter domestic brands" title.











- 1. Won National Innovation Fund enterprise, China's high-tech enterprise
- 2. Repeatedly won "China top ten domestic brands" title
- 3. With more than 13 years of rich experience R&D team
- 4. With completely independent intellectual property rights, has dozens of patents
- 5. Master the world's leading asynchronous, synchronous vector control technology and torque control technology
- 6. ISO9001:2008 system certification unit, strict and standard information quality control system
- 7. Has more than 30 offices in China
- 8. ENC provide quality products and services for more than 30 countries' industrial user





EN500/EN600 adopts 32 bit DSP hardware platform and advanced control algorithm, can achieve PG closed loop vector control and open loop vector control without PG, along speed vector and torque vector mode. It can quickly limit the impact current and be widely used in high-end manufacturing. EN500/EN600 can achieve high precision control, fast response speed, good performance at low frequency, with intelligent detection and good protections. They have wide range of networking capabilities, rich peripheral bus expansion, terminal expansion, relay expansion, analog expansion, etc.



Typical application industry

EN500/EN600 is applied to metalworking, plastic machinery, CNC machine tools, printing equipment, printing and dyeing industry, paper making, municipal engineering, water supply project and sewage treatment and other industries. It is also widely demanded in the fields of textile, refrigeration, cement, ceramics, chemical industry, shipbuilding, mining and so on.

















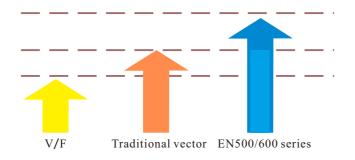


Speed vector mode:

Fast response, low frequency hi-torque output

V/F control: 150% rated torque at 1.0Hz; Traditional vector control: 150% rated torque at 0.5Hz;

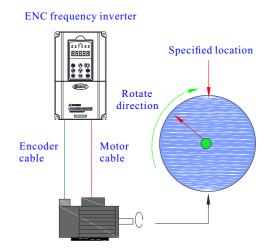
EN500/EN600 PG vector control: 180% rated torque at 0Hz



Positioning control:

Can run to original location or stop at the specified location

Point positioning relative to the Z axis angle: $0.00 \sim 360.00$ degrees



Torque vector mode:

Output adjustable torque

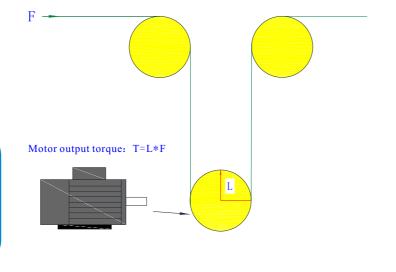
Torque control precision:

 $\pm 10\%$ rated torque (vector control, torque contro $\pm 5\%$ rated torque (PG vector control, PG torque

control)

Torque response

≤20ms (vector control); ≤10ms (PG vector control)



Recoil load applications:

Eliminate the punching machine load's power regeneration in punching process due to reaction force.

G type over loading capacity: 150% of rated

Allowed volt.range: 1phase 220V grade

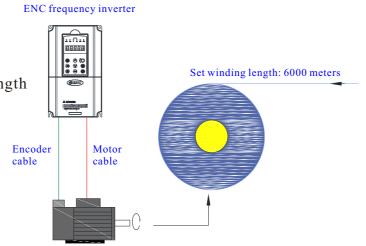
Allowed volt.range: 3phase 380V grade 320~460V



Fixed-length control:

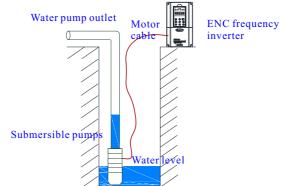
Can work according to the set length

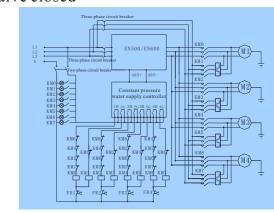
Accuracy: 0.001m Length up to 65535m



Constant pressure water supply and waterless protection:

Prevent damaging equipment when pump operates without load or pump starts under discharge valve closed







Personal computer control:

Using desktop computers, laptop, or other personal computers as operating platform, only need to install we ENC monitor system software on your computer, then you can operate the frequency inverter, set the parameters, monitor the state. A computer can control 255 frequency inverters.



Instant power sway without halt:

When unstable power grid causes power off or sway, you can choose this function and make frequency inverter work continuously.



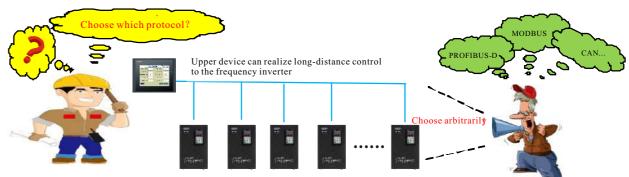
Disconnection detect function:

Disconnection detect, under the constant pressure water supply application, if the external pressure gauge disconnect and cause the water pressure too high or even damage the pipe network, EN500/EN600 can detect the external pressure gauge. If disconnect, the frequency inverter will send an alarm and shutdown.



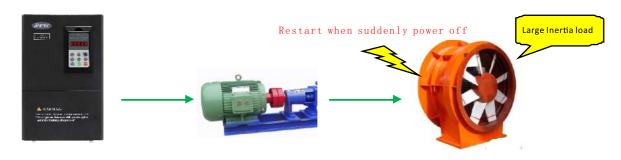
Rich communication protocol:

EN500/EN600 has standard RS485 interface, can realize Modbus protocol, free protocol communication. In addition, expansion card PROFIBUS-DP, CANopen, CANlink are optional.



Speed tracking function:

Starting the machine during rotation will generate electricity, usually very difficult to start and the inverted power generation could bring about some hazards. EN500/EN600 speed tracking function can avoid the hazards caused by inverted power generation



Keypad copy function:

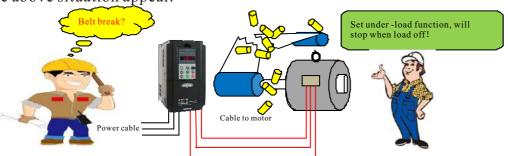
Using the parameter copy function, you can set all parameter into a frequency inverter and upload parameters to the keypad, then use the keypad to download the parameter to other devices, which can keep all parameters consistent!



www.encvfd.com

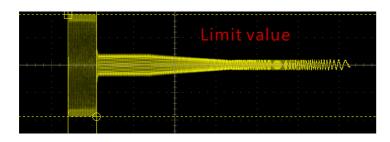
Under load protection:

When load off or chain/belt break during normal work, usually need to make the frequency inverter immediately stop. Under these circumstances, this function will play a role. You can set EN600 under load protection and the under load point can be set according to your needs, then frequency inverter will automatically stop when the above situation appear.



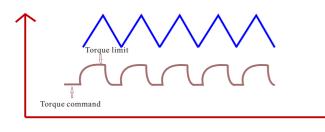
Rapid current limiting function:

Rapid current limiting function can avoid frequency inverter frequently over current alarm. When the current exceeds the current protection point, this function can quickly limit the current within the current protection point, so as to protect equipment and avoid over current alarm due to suddenly load or unload.



Torque limit function:

EN500/EN600 frequency inverter has torque limit function. When the torque command exceeds the maximum torque that the machine can withstand, the frequency inverter can limit the torque within the set maximum torque and protect equipment under the premise of maximizing mechanical efficiency.



| | Ito | em | Item description | | | | |
|---------------------|------------------------|------------------------------|---|--|--|--|--|
| Input | | 1 volt., frequency | 1 phase 200V-240V ±15% 3 phase 200V-240V ±15% 3 phase 380V-480V ±15% 50/60Hz ±5% | | | | |
| | Kateo | l input frequency | | | | | |
| | | Voltage | 0∼supply voltage | | | | |
| Output | | Frequency | 0~600Hz | | | | |
| | Over | loading capacity | G type: 150% of rated current for 1 minute P type: 120% of rated current for 1 minute | | | | |
| | C | Control mode | Vector control, PGVector control, Open-loop V/F control, torque control, PG torque control | | | | |
| | Speed | stabilityaccuracy | ±0.5% rated synchronous speed(vector control) ±0.1% rated synchronous speed(PG vector control) ±1% rated synchronous speed(V/F control) | | | | |
| | 5 | Speed range | 1:2000(PG vector control) 1:100(vector control) 1:50(V/F control) | | | | |
| | Start-up torque | | 1.0Hz:150% rated torque(V/F control) 0.5Hz:150% rated torque(vector control) 0Hz:180% rated torque(PG vector control) | | | | |
| | Speed fluctuation | | ±0.3% rated synchronous speed(vector control) ±0.1% rated synchronous speed(PG vector control) | | | | |
| | Torquecontrol accuracy | | ±10% rated torque(vector control, torque control) ±5% rated torque(PG vector control, PG torque control) | | | | |
| Ç | Torque response | | ≤20ms(vector control) ≤10ms (PG vector control) | | | | |
| Control performance | Frequ | iency precision | Digital settled: max.frequency×±0.01%; Analog settled: max. frequency×±0.5% | | | | |
| perf | | Analog setting | 0.1% of max. frequency | | | | |
| òrma | Frequency resolution | Digital settled precision | 0.01Hz | | | | |
| nce | | Exterior impulse | 0.1% of max. frequency | | | | |
| | Т | orque boost | Automatic torque boost; manual torque boost 0.1~12.0% | | | | |
| | V/F curv Characte | ve(volt. Frequency eristics) | Setting rated frequency at the range of 5~650Hz, by choosing constant torque, degressive torque 1, degressive torque 2, degressive torque 3, user defined V/F curve in total 5 kinds of curve. | | | | |
| | Accelerat | tionanddeceleration | 2 modes: linear acceleration and deceleration and "S"acceleration and deceleration; 15 types of acceleration and deceleration time, the time unit (0.01s,0.1s,1s) is optional, the max. time is 1000 minutes | | | | |
| | Brake | Power consumption brake | The 15kw power and under power range with inbuilt brake unit, only need to added brake resistor between (+) and PB; The 18.5kw and up power range is possible to add brake unit between (+) and (-) outside; or extra connect brake unit with adding brake resistor between (+) and PB.EN500 series can connect brake unit between (+) and (-) outside. | | | | |
| | | DC brake | Optional start and stop, action frequency 0~15Hz, action current 0~100%, action time 0~30.0s | | | | |
| | | Jog | JOG frequency range: 0.00-upper limiting frequency JOG acceleration/deceleration time: 0.0-6000. 0s for setting | | | | |
| | Multi- | section speed run | Realized by inbuilt PLC or control terminal; with 15section speed. Each section speed with separately acceleration and deceleration time; with inbuilt PLC can achieve reserve when power down. | | | | |
| | Inbuil | t PID controller | Convenient to make closed-loop control system | | | | |

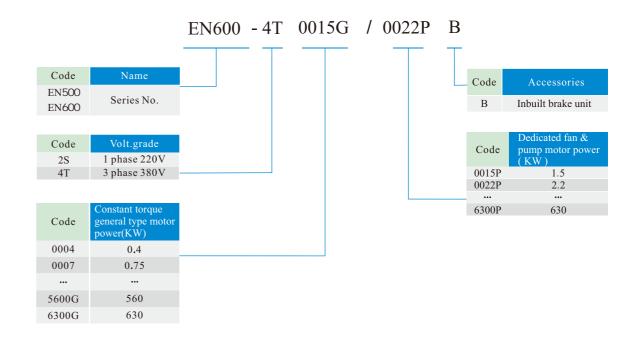
Product technic index and spec

| | Item | Item description |
|--------------------------------|-------------------------------------|---|
| | | |
| Cor | Automatic energysaving run | Optimize V/F curveautomatically to achieve energy-saving run according to the load status. |
| ıtrol _I | Automatic voltage regulate(AVR) | Automatically keep output voltage constant, when the power grid voltage fluctuate |
| erfo | Automatic current limiting | Current limited automatically under run mode in avoid of inverter over-current frequency to trip. |
| Control performance | Carrier modulation | Modulate carrier wave automatically according to the load characteristic. |
| 8 | Speed tracking restart | Make rotating motor smooth start without shocking |
| | Running command specified channel | Keypad specified, control terminal specified, communication specified can switch through various means |
| Running function | Running frequency specified channel | Main and auxiliary specified to a realize one main adjusting and one fine control. Digital specified, analog specified, pulse specified, pulse-width specified, communication specified and others, which can be switched by many means at any time. |
| | Binding function | Run command channel and frequency specified channel can be bind together randomly and switch synchronously. |
| Input | Digital input channel | Channel8 for universal digital input, max. Frequency1KHZ, channel 1 can be used as pulse input channel, max. input 50KHz, which can be expanded to channel 14. |
| Inputand Output characteristic | Analog input channel | 2 channel for analog input channel, AI1 can choose $4\sim20\text{mA}$ or $0\sim10\text{V}$ as output, AI2 is differential input channel, $4\sim20\text{mA}$ or $10\sim10\text{V}$ for option, which can be expanded to channel 4 analog input. |
| ut chara | Pulse output channel | $0.1{\sim}20 KHZ$ pulse square signal output to achieve setting frequency, output frequency and other physical quantity output. |
| cteristic | Analog output channel | Channel 2 for analog signal output, AO1 can be $4\sim20\text{mA}$ or $0\sim10\text{V}$, AO2 can be $4\sim20\text{mA}$ or $0\sim10\text{V}$ to achieve setting frequency, output frequency and other physical quantity output, which can be expanded to channel 4 analog output. |
| | Rapid current limit | Limit inverter over current to the greatest point, and make it run more stably. |
| Unique | Monopulse control | Suitable for working site where need one button to control inverter start and stop, first press to start, then press to stop, and that cycle repeats. It is very simple and reliable. |
| function | Fixed length control | Realize fixed length control |
| | Timing control | Timing control: setting time range: 0.1-6500.0 minutes |
| | Virtual terminal | Five groups of virtual input &output IO can realize simply logical control. |
| Keypad | Keypad display | The parameters like setting frequency, output frequency, output voltage, output current can be displayed |
| Reypad | Button locked | Lock all or part of the buttons. |
| | Protection function | Motor power on shot circuit test, input/output phase loss protection, over-current protection, over-voltage protection, undervoltage protection, overheat protection, overload protection, under load protection, relay absorption protection, terminal protection and non stop protection under power off. |
| | Use ambient | Indoor, not bare to sunlight, no dust, no corrosive gas, no flammable gas, no vapor, no water drop or salt etc. |
| | Altitude | Under 1000 meters.(above 1000meter require to reduce volume to use, output current reduce about 10% of rated current per 1000 meter increase) |
| Ambient | Environment temperature | -10°C to +40°C (environment temperature between 40°C - 50°C, need to reduce volume or strengthen heat sink) |
| | Environment humidity | Smaller than 95%RH, no drop condenses |
| | Vibration | Smaller than $5.9 \text{m/s}^2 (0.6 \text{g})$ |
| | Storage temperature | -40°C~+70°C |
| | Defending grade | IP20 |

Forced air cooling and natural

Wall hanging and cabinet installation







| EN600-2S0004 2.5 0.4 | Input Voltage | Inverter type | Rated output Current(A) | Adaptable motor (KW) |
|--|------------------|----------------------|----------------------------|-------------------------|
| 1 phase 220V EN600-2S0015 7 1.5 EN600-2S0022 10 2.2 EN600-2S0037 15 3.7 EN600-4T0007G/0015P 2.3/3.7 0.75/1.5 EN600- 4T0015G/0022P 3.7/5 1.5/2.2 EN600- 4T0022G/0037P 5/5.8 2.2/3.7 EN600- 4T0037G/0055P 8.5/13 3.7/5.5 EN600- 4T0055G/0075P 13/17 5.5/7.5 EN600- 4T0075G/0110P 17/25 7.5/11 EN600- 4T0110G/0150P 25/33 11/15 EN600- 4T0150G/0185P 33/39 15/18.5 EN600- 4T0185G/0220P 39/45 18.5/22 | | EN600-2S0004 | 2.5 | 0.4 |
| 220V EN600-2S0015 / 1.5 EN600-2S0022 10 2.2 EN600-2S0037 15 3.7 EN600-4T0007G/0015P 2.3/3.7 0.75/1.5 EN600-4T0015G/0022P 3.7/5 1.5/2.2 EN600-4T0022G/0037P 5/5.8 2.2/3.7 EN600-4T0025G/0055P 8.5/13 3.7/5.5 EN600-4T0055G/0075P 13/17 5.5/7.5 EN600-4T0075G/0110P 17/25 7.5/11 Shase 380V EN600-4T0110G/0150P 25/33 11/15 EN600-4T0150G/0185P 33/39 15/18.5 EN600-4T0185G/0220P 39/45 18.5/22 | | EN600-2S0007 | 4 | 0.75 |
| EN600-2S0037 15 3.7 EN600-4T0007G/0015P 2.3/3.7 0.75/1.5 EN600-4T0015G/0022P 3.7/5 1.5/2.2 EN600-4T0022G/0037P 5/5.8 2.2/3.7 EN600-4T0037G/0055P 8.5/13 3.7/5.5 EN600-4T0055G/0075P 13/17 5.5/7.5 EN600-4T0075G/0110P 17/25 7.5/11 3 phase 380V EN600-4T0110G/0150P 25/33 11/15 EN600-4T0150G/0185P 33/39 15/18.5 EN600-4T0185G/0220P 39/45 18.5/22 | | EN600-2S0015 | 7 | 1.5 |
| EN600- 4T0007G/0015P 2.3/3.7 0.75/1.5 EN600- 4T0015G/0022P 3.7/5 1.5/2.2 EN600- 4T0022G/0037P 5/5.8 2.2/3.7 EN600- 4T0037G/0055P 8.5/13 3.7/5.5 EN600- 4T0055G/0075P 13/17 5.5/7.5 EN600- 4T0075G/0110P 17/25 7.5/11 EN600- 4T0110G/0150P 25/33 11/15 EN600- 4T0150G/0185P 33/39 15/18.5 EN600- 4T0185G/0220P 39/45 18.5/22 | | EN600-2S0022 | 10 | 2.2 |
| EN600- 4T0015G/0022P 3.7/5 1.5/2.2 EN600- 4T0022G/0037P 5/5.8 2.2/3.7 EN600- 4T0037G/0055P 8.5/13 3.7/5.5 EN600- 4T0055G/0075P 13/17 5.5/7.5 EN600- 4T0075G/0110P 17/25 7.5/11 3 phase 380V EN600- 4T0110G/0150P 25/33 11/15 EN600- 4T0150G/0185P 33/39 15/18.5 EN600- 4T0185G/0220P 39/45 18.5/22 | | EN600-2S0037 | 15 | 3.7 |
| BN600- 4T0022G/0037P 5/5.8 2.2/3.7 EN600- 4T0037G/0055P 8.5/13 3.7/5.5 EN600- 4T0055G/0075P 13/17 5.5/7.5 EN600- 4T0075G/0110P 17/25 7.5/11 3 phase 380V EN600- 4T0110G/0150P 25/33 11/15 EN600- 4T0150G/0185P 33/39 15/18.5 EN600- 4T0185G/0220P 39/45 18.5/22 | | EN600- 4T0007G/0015P | 2.3/3.7 | 0.75/1.5 |
| BN600- 4T0037G/0055P 8.5/13 3.7/5.5 EN600- 4T0055G/0075P 13/17 5.5/7.5 EN600- 4T0075G/0110P 17/25 7.5/11 EN600- 4T0110G/0150P 25/33 11/15 EN600- 4T0150G/0185P 33/39 15/18.5 EN600- 4T0185G/0220P 39/45 18.5/22 | | EN600-4T0015G/0022P | 3.7/5 | 1.5/2.2 |
| BN600- 4T0055G/0075P 13/17 5.5/7.5 EN600- 4T0075G/0110P 17/25 7.5/11 3 phase 380V EN600- 4T0110G/0150P 25/33 11/15 EN600- 4T0150G/0185P 33/39 15/18.5 EN600- 4T0185G/0220P 39/45 18.5/22 | | EN600- 4T0022G/0037P | 5/5.8 | 2.2/3.7 |
| 3 phase 380V EN600- 4T0075G/0110P 17/25 7.5/11 EN600- 4T0110G/0150P 25/33 11/15 EN600- 4T0150G/0185P 33/39 15/18.5 EN600- 4T0185G/0220P 39/45 18.5/22 | | EN600-4T0037G/0055P | 8.5/13 | 3.7/5.5 |
| 3 phase 380V EN600- 4T0110G/0150P 25/33 11/15 EN600- 4T0150G/0185P 33/39 15/18.5 EN600- 4T0185G/0220P 39/45 18.5/22 | | EN600- 4T0055G/0075P | 13/17 | 5.5/7.5 |
| EN600- 4T0185G/0220P 25/35 11/15 EN600- 4T0185G/0220P 39/45 18.5/22 | | EN600-4T0075G/0110P | 17/25 | 7.5/11 |
| EN600- 4T0150G/0185P 33/39 15/18.5 EN600- 4T0185G/0220P 39/45 18.5/22 | | EN600- 4T0110G/0150P | 25/33 | 11/15 |
| | 300 1 | EN600- 4T0150G/0185P | 33/39 | 15/18.5 |
| EN600- 4T0220G/0300P 45/60 22/30 | | EN600- 4T0185G/0220P | 39/45 | 18.5/22 |
| 22/30 | | EN600- 4T0220G/0300P | 45/60 | 22/30 |
| EN600- 4T0300G/0370P 60/75 30/37 | | EN600-4T0300G/0370P | 60/75 | 30/37 |
| EN600- 4T0370G/0450P 75/91 37/45 | | EN600-4T0370G/0450P | 75/91 | 37/45 |
| EN600-4T0450G/0550P 91/112 45/55 | | EN600-4T0450G/0550P | 91/112 | 45/55 |

| Input Voltage | Inverter type | Rated output Current(A) | Adaptable motor (KW) |
|------------------|---|----------------------------|-------------------------|
| | EN600-4T0550G/0750P | 112/150 | 55/75 |
| | EN500-4T0750G/0900P | 150/176 | 75/90 |
| | EN500-4T0900G/1100P | 176/210 | 90/110 |
| | EN500-4T1100G/1320P | 210/253 | 110/132 |
| | EN500-4T1320G/1600P | 253/304 | 132/160 |
| | EN500-4T1600G/2000P | 304/380 | 160/200 |
| | EN500- 4T2000G/2200P | 380/426 | 200/220 |
| | EN500- 4T2200G/2500P | 426/474 | 220/250 |
| 3 phase | EN500- 4T2500G/2800P | 474/520 | 250/280 |
| 380V | EN500- 4T2800G/3150P | 520/600 | 280/315 |
| | EN500-4T3150G/3550P | 600/650 | 315/355 |
| | EN500-4T3550G/3750P | 650/680 | 355/375 |
| | EN500- 4T3750G/4000P | 680/750 | 375/400 |
| | EN500- 4T4000G/4500P | 750/800 | 400/450 |
| | EN500- 4T4500G/5000P | 800/870 | 450/500 |
| | EN500- 4T5000G/5600P | 870/940 | 500/560 |
| | EN500- 4T5600G/6300P | 940/1100 | 560/630 |
| | EN500-4T6300G | 1100 | 630 |
| Note | (This information is for reference only | Please refer to the | instruction |

Note: (This information is for reference only. Please refer to the instruction manual. If there is any change in the product, no further notice will be given)

Cooling mode

Installation mode

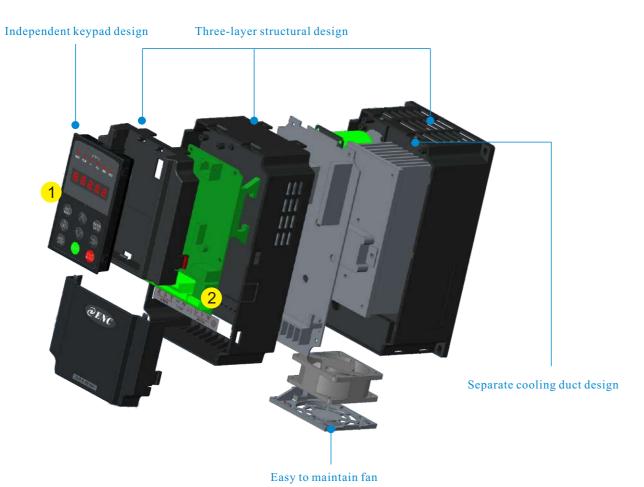


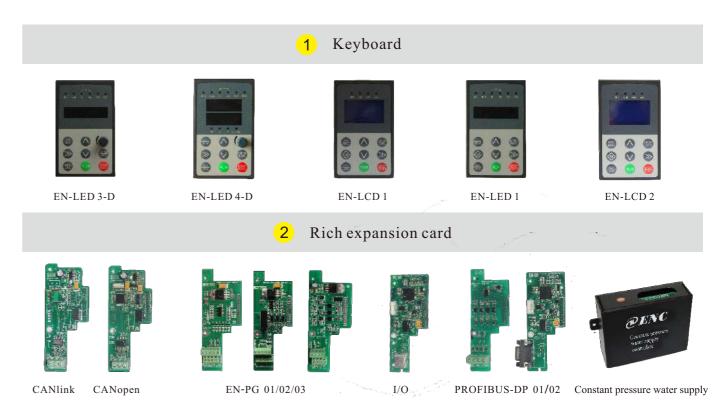
| Input Voltage | Inverter type | Packing size(cm) | G.W.(KG) |
|------------------|----------------------|---------------------|----------|
| | EN600-2S0004 | 26*17*22 | 2.5 |
| | EN600-2S0007 | 26*17*22 | 2.5 |
| 1 phase 220V | EN600-2S0015 | 26*17*22 | 2.5 |
| 220 V | EN600-2S0022 | 26*17*22 | 2.5 |
| | EN600-2S0037 | 30*21*25 | 4.5 |
| | EN600- 4T0007G/0015P | 26*17*22 | 2.5 |
| | EN600- 4T0015G/0022P | 26*17*22 | 2.5 |
| | EN600- 4T0022G/0037P | 26*17*22 | 2.5 |
| | EN600- 4T0037G/0055P | 26*17*22 | 2.5 |
| | EN600- 4T0055G/0075P | 30*21*25 | 4.5 |
| | EN600- 4T0075G/0110P | 30*21*25 | 4.5 |
| 3 phase 380V | EN600- 4T0110G/0150P | 38*26*29 | 6.5 |
| 300 1 | EN600- 4T0150G/0185P | 38*26*29 | 6.5 |
| | EN600-4T0185G/0220P | 49*33.5*29 | 15 |
| | EN600- 4T0220G/0300P | 49*33.5*29 | 15 |
| | EN600- 4T0300G/0370P | 53*36*32 | 20 |
| | EN600- 4T0370G/0450P | 53*36*32 | 20 |
| | EN600- 4T0450G/0550P | 62*38.5*36 | 29 |

| Input Voltage | Inverter type | Packing size(cm) | G.W.(KG) |
|------------------|----------------------|------------------|----------|
| | EN600-4T0550G/0750P | 62*38.5*36 | 29 |
| | EN500-4T0750G/0900P | 69*46*56 | 48 |
| | EN500-4T0900G/1100P | 69*46*56 | 60 |
| | EN500-4T1100G/1320P | 78*52*56 | 80 |
| | EN500-4T1320G/1600P | 78*52*56 | 80 |
| | EN500-4T1600G/2000P | 110*60*60 | 125 |
| | EN500- 4T2000G/2200P | 115*62*60 | 145 |
| | EN500- 4T2200G/2500P | 115*62*60 | 145 |
| 3 phase | EN500- 4T2500G/2800P | 150*82*65 | 225 |
| 380V | EN500- 4T2800G/3150P | 150*82*65 | 225 |
| | EN500-4T3150G/3550P | 150*82*65 | 225 |
| | EN500- 4T3550G/3750P | 164*82*65 | 255 |
| | EN500- 4T3750G/4000P | 164*82*65 | 255 |
| | EN500- 4T4000G/4500P | 164*82*65 | 255 |
| | EN500- 4T4500G/5000P | 181*101*80 | 330 |
| | EN500- 4T5000G/5600P | 181*101*80 | 335 |
| | EN500- 4T5600G/6300P | 181*101*80 | 370 |
| | EN500- 4T6300G | 181*101*80 | 380 |

Note: (This information is for reference only. Please refer to the instruction manual. If there is any change in the product, no further notice will be given)

Product architecture

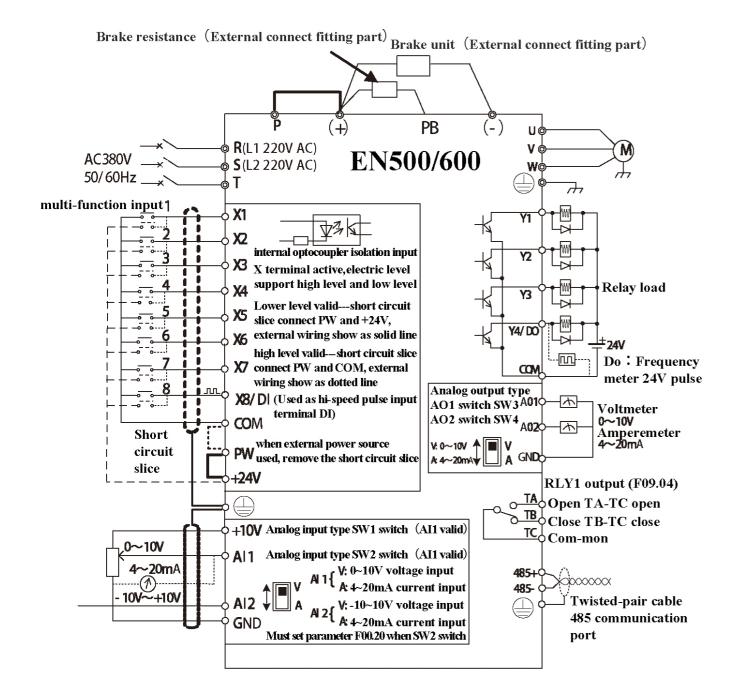


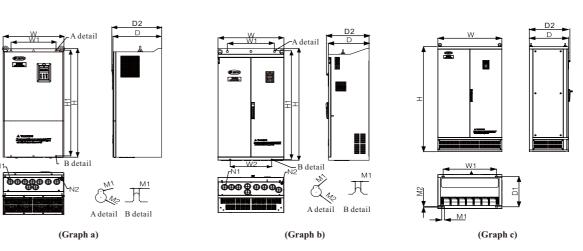


Accessories

| Name | Model | Description | Remark |
|----------------------------------|-----------|--|----------|
| | EN-LED3-D | Local LED single-display digital potentiometer keyboard (with the function of parameter copy) | Standard |
| | EN-LED4-D | Local LED Double-display digital potentiometer keyboard (with the function of parameter copy) | Optional |
| Keyboard | EN-LCD1 | Local LCD keyboard(with the function of parameter copy) | Optional |
| | EN-LCD2 | Remote control LCD keyboard (with the function of parameter copy) | Optional |
| | EN-LED1 | Local LED single-display keyboard | Optional |
| | EN-PR01 | PROFIBUS-DP communication card (use in 15kw and the below) | Optional |
| Communication extension card | EN-PR02 | PROFIBUS-DP communication card (use in 15kw above) | Optional |
| | EN-CAN1 | CANopen communication card | Optional |
| | EN-CAN2 | CANlink communication card | Optional |
| | EN-PG01 | Differentiator input PG card, encoder input signal not isolated(suitable for all series machine) | Optional |
| Universal encoder expansion card | EN-PG02 | Differentiator input PG card, encoder input signal through the optocoupler isolation, stronger anti-interference ability (suitable for all series machine) | Optional |
| | EN-PG03 | Oc input PG card, encoder input signal through the optocoupler isolation | Optional |
| Integration expansion card | EN-PRPG01 | PROFIBUS-DP and OC output PG integration expansion card (apply to 5.5 kw inverter and above power) | Optional |

www.encvfd.com Shenzhen Encom Electric Technologies CO.,LTD.

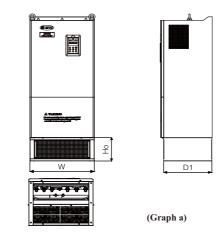


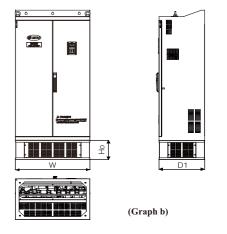


EN500 mounting size

| Inverter type | H (mm) | H1 (mm) | W (mm) | W1 (mm) | W2 (mm) | D (mm) | (D1 (mm) | D2 (mm) | N1 (mm) | N2 (mm) | M1 (mm) | M2 (mm) | Figure number |
|---------------------|-----------|------------|-----------|------------|------------|-----------|-------------|-------------|-------------|------------|------------|------------|---------------|
| EN500-4T0750G/0900P | 570 | 546 | 340 | 237 | _ | 320 | | 333 | | | Ф12 | Ф18 | |
| EN500-4T0900G/1100P | 570 | 340 | 340 | 231 | | 320 | | 333 | | | Ψ12 | Ψ10 | |
| EN500-4T1100G/1320P | 650 | 628 | 400 | 297 | _ | 340 | _ | 353 | | _ | Ф12 | Ф18 | |
| EN500-4T1320G/1600P | 000 | 020 | 420 | 291 | | 340 | | 333 | | | Ψ12 | Ψ16 | Graph a |
| EN500-4T1600G/2000P | 980 | 953 | 480 | 370 | - | 400 | - | 413 | Ф38 | Ф19 | Φ9 | Ф18 | |
| EN500-4T2000G/2200P | 1030 | 1003 | 500 | 370 | _ | 400 | _ | 413 | Ф38 | Ф19 | Ф9 | Ф18 | |
| EN500-4T2200G/2500P | 1030 | 1005 | 500 | 310 | _ | 400 | _ | 413 | Ψ30 | Ψ19 | Ψ9 | Ψ16 | |
| EN500-4T2500G/2800P | | | | | | | | | | | | | |
| EN500-4T2800G/3150P | 1368 | 1322 | 700 | 500 | 440 | 430 | _ | 443 | Ф 52 | Ф19 | Ф12 | Ф22 | |
| EN500-4T3150G/3550P | | | | | | | | | | | | | C1- 1- |
| EN500-4T3550G/3750P | | | | | | | | | OD | | | | Graph b |
| EN500-4T3750G/4000P | 1518 | 1483 | 700 | 500 | 500 | 430 | _ | 443 | OB 77*47 | Ф19 | Ф12 | Ф22 | |
| EN500-4T4000G/4500P | | | | | | | | | | | | | |
| EN500-4T4500G/5000P | 1650 | _ | 850 | 700 | _ | 550 | 490 | 5 00 | _ | _ | 40 | Ф13 | |
| EN500-4T5000G/5600P | 1000 | | 000 | 700 | | 550 | 430 | 563 | | | 40 | A-19 | Graph c |
| EN500-4T5600G/6300P | 1700 | _ | 900 | 750 | _ | 550 | 490 | 563 | _ | _ | 40 | Ф13 | Grapii c |
| FN500-4T6300G | 1700 | | 900 | 130 | | 550 | 490 | 505 | | | 40 | A 19 | |

EN500 base outer dimension





www.encvfd.com

Shenzhen Encom Electric Technologies CO.,LTD.





| Base model | (mm) | D1 (mm) | Ho (mm) | Icon |
|---------------|------|---------|------------|---------|
| SP-BS-0900 | 340 | 300 | 180 | |
| SP-BS-0750-LI | | | | |
| SP-BS-0750-LD | 340 | 300 | 350 | |
| SP-BS-0900-LI | 340 | 300 | 390 | |
| SP-BS-0900-L0 | | | | |
| SP-BS-1100 | 400 | 320 | 180 | |
| SP-BS-1100-LI | 400 | 320 | 380 | Graph a |
| SP-BS-1100-L0 | 400 | 320 | 360 | |
| SP-BS-1320 | 420 | 320 | 180 | |
| SP-BS-1320-LI | 420 | 320 | 380 | |
| SP-BS-1320-L0 | 420 | 320 | 300 | |
| SP-BS-1600 | 480 | 380 | 180 | |
| SP-BS-1600-LI | 480 | 380 | 400 | |
| SP-BS-1600-L0 | 400 | 300 | 400 | |
| SP-BS-2200 | 500 | 380 | 200 | |

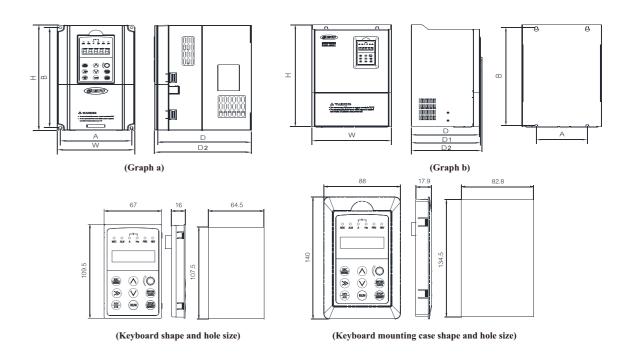
| Base model | (mm) | D1 (mm) | (mm) | Icon | |
|---------------|------|---------|------|---------|--|
| SP-BS-2000-LI | | | | | |
| SP-BS-2000-L0 | 500 | 200 | 400 | Cuamb a | |
| SP-BS-2200-LI | 500 | 380 | 400 | Graph a | |
| SP-BS-2200-L0 | | | | | |
| SP-BS-4000 | 700 | 430 | 204 | | |
| SP-BS-2500-LI | | | | Graph b | |
| SP-BS-2500-L0 | | 400 | 400 | | |
| SP-BS-2800-LI | 700 | | | | |
| SP-BS-2800-L0 | 700 | 430 | 400 | | |
| SP-BS-3150-LI | | | | | |
| SP-BS-3150-L0 | | | | | |
| SP-BS-4000-LI | 700 | 430 | 450 | | |
| SP-BS-4000-L0 | 100 | 430 | 450 | | |

Note: (This information is for reference only. Please refer to the instruction manual. If there is any change in the product, no further notice will be given)

W

EN500 inverter and base selection (the base is optional)

| Inverter type | Base model | | | | | | | | | |
|---------------------|---------------|--------------------|---------------------|-----------------|--|--|--|--|--|--|
| inverter type | Standard base | With input reactor | With output reactor | With DC reactor | | | | | | |
| EN500-4T0750G/0900P | ap pg 0000 | SP-BS-0750-LI | SP-BS-0900-L0 | SP-BS-0750-LD | | | | | | |
| EN500-4T0900G/1100P | SP-BS-0900 | SP-BS-0900-LI | SP-BS-0900-L0 | - | | | | | | |
| EN500-4T1100G/1320P | SP-BS-1100 | SP-BS-1100-LI | SP-BS-1100-L0 | - | | | | | | |
| EN500-4T1320G/1600P | SP-BS-1320 | SP-BS-1320-LI | SP-BS-1320-L0 | - | | | | | | |
| EN500-4T1600G/2000P | SP-BS-1600 | SP-BS-1600-LI | SP-BS-1600-L0 | - | | | | | | |
| EN500-4T2000G/2200P | CD DC 0000 | SP-BS-2000-LI | SP-BS-2000-L0 | - | | | | | | |
| EN500-4T2200G/2500P | SP-BS-2200 | SP-BS-2200-LI | SP-BS-2200-L0 | - | | | | | | |
| EN500-4T2500G/2800P | | SP-BS-2500-LI | SP-BS-2500-L0 | - | | | | | | |
| EN500-4T2800G/3150P | | SP-BS-2800-LI | SP-BS-2800-L0 | - | | | | | | |
| EN500-4T3150G/3550P | | SP-BS-3150-LI | SP-BS-3150-L0 | - | | | | | | |
| EN500-4T3550G/3750P | SP-BS-4000 | SP-BS-4000-LI | SP-BS-4000-L0 | - | | | | | | |
| EN500-4T3750G/4000P | | SP-BS-4000-LI | SP-BS-4000-L0 | - | | | | | | |
| EN500-4T4000G/4500P | | SP-BS-4000-LI | SP-BS-4000-L0 | - | | | | | | |



EN600 mounting size

| Inverter type | A (mm) | B (mm) | W (mm) | H (mm) | D (mm) | D1 (mm) | D2 (mm) | Mounting aperture | Figure number | | | | | | |
|---------------------|-----------|-----------|-----------|-----------|-----------|------------|------------|-------------------|------------------|---------|--|--|--|--|--|
| EN600-2S0004 | | | | | | | | | | | | | | | |
| EN600-2S0007 | 104 | 186 | 115 | 200 | 151 | | 164 | 5 | Graph a | | | | | | |
| EN600-2S0015 | 104 | 100 | 110 | 200 | 191 | _ | 104 | i) | Опари а | | | | | | |
| EN600-2S0022 | | | | | | | | | | | | | | | |
| EN600-2S0037 | 129 | 227 | 140 | 240 | 175 | - | 188 | 5 | Graph a | | | | | | |
| EN600-4T0007G/0015P | | | | | | | | | | | | | | | |
| EN600-4T0015G/0022P | 104 | 186 | 115 | 200 | 151 | | 164 | 5 | Graph a | | | | | | |
| EN600-4T0022G/0037P | | 104 10 | 100 | 110 | 200 | 101 | | 104 | J | Отари а | | | | | |
| EN600-4T0037G/0055P | | | | | | | | | | | | | | | |
| EN600-4T0055G/0075P | 100 | 227 | 1.40 | 240 | 175 | | 188 | 5 | Graph a | | | | | | |
| EN600-4T0075G/0110P | 129 | 221 | 140 | 240 | 175 | _ | 100 | Э | Огарп а | | | | | | |
| EN600-4T0110G/0150P | 165 | 281 | 180 | 304 | 189 | | 202 | 6 | Graph a | | | | | | |
| EN600-4T0150G/0185P | 100 | 281 | 180 | 304 | 189 | _ | 202 | О | Огарп а | | | | | | |
| EN600-4T0185G/0220P | 100 | 382 | 250 | 398 | 210 | 214 | 000 | 9 | Graph b | | | | | | |
| EN600-4T0220G/0300P | 180 | 362 | 200 | 290 | 210 | 214 | 223 | 9 | Отари о | | | | | | |
| EN600-4T0300G/0370P | 180 | 49.4 | 000 | 450 | 0.40 | 0.4.4 | 253 | 0 | Graph b | | | | | | |
| EN600-4T0370G/0450P | | 434 | 280 | 450 | 240 | 244 | 200 | 9 | Огари в | | | | | | |
| EN600-4T0450G/0550P | 100 | F04 F | 000 | F20 | 050 | 054 | 000 | 0 | Graph b | | | | | | |
| EN600-4T0550G/0750P | 190 | 504. 5 | 290 | 530 | 250 | 254 | 263 | 9 | Отари в | | | | | | |

Note: (This information is for reference only. Please refer to the instruction manual. If there is any change in the product, no further notice will be given)