

ENC INVERTER



**SHENZHEN ENCOM ELECTRIC
TECHNOLOGIES CO., LTD**

Company brief introduction



Founding Time: 2004

Company Cert: ISO9001:2000 quality control system approval

Main Item: Frequency Inverter /AC Drive /Variable Frequency Drive

Production Cert: CE approval

Number of Employees: 200

Number of research staffs: 30

Factory Size: 3000 m² brand-new manufacture base

Annual capacity: 200 million

Honor of Encom: National innovation Fund
Shenzhen Hi-tech R&D subsidies
Shenzhen Software Association member

Products series

- EDS800 mini universal inverter(0.2~1.5KW)
- EDS1000 series multi-function universal inverter (0.4KW~55KW)
- EDS2000 series high-performance universal inverter (2.2KW ~ 400KW)
- EDS2800 series current vector control engineering inverter (including special function for injection molding machine, 11KW~75KW)
- EDS2860 series special type with integrated energy save and control for injection molding machine (7.5KW~75KW)
- EDS2080 series t bypass /variable frequency integrated energy save and control machine (7.5KW~280KW)

Unique performance characteristic:

1. Adopt control unit which takes DSP as core to realize hi-speed and hi-performance control to the system and to realize low-frequency hi-torque output.
2. Multiple I/O interface to fulfill special demands from every line.
3. Reasonable design of digital potentiometer and 3 classes menu
4. Standard RS485 and RS232 communication interface
5. Supports local and remote keypad, extended distance can reach 1000 meters.
6. Crystal English display keypad and English operation content indicating.
7. Keypad parameter copy function
8. Password protection function
9. With an open product development platform, it is easy to customize the product of which customer need.

Type selection

EDS2000 – 4 T 0110 G B

Series Mark	Series Code
Mini type	EDS800
Multi functional smart type	EDS1000
High-performance universal type	EDS2000
Project type	EDS2800
...	...
Servo controlled type	EDS5000

Volt Grade	Code
220V	2
380V	4

Input Volt	Code
Three Phase	T
Single Phase	S

Code	Fitting Part
B	Built-in brake unit
C	Built-in brake unit And brake resistance
E	With remote-control keypad

Code	Inverter type
G	Constant torque General type
P	Type for blower And water pump

Code	Adaptable motor Power (KW)
0002	0.2KW
0004	0.4KW
...	...
2800	280KW
3150	315KW



Spec. ,Size and gross weight

INVERTER TYPE	Rated Power (KW)	Rated Output Current (A)	Size H*W*D(mm)	Packing size(cm)	G.W. (kg)
EDS800-2S0002	0.2	1.6	141.5*85*126	16*18*17	1.3
EDS800-2S0004	0.4	3			
EDS800-2S0007	0.75	4.7			
EDS800-2S0015	1.5	7.5			
EDS800-4T0007	0.75	2.3			
EDS800-4T0015	1.5	3.7			

INVERTER TYPE	Rated Power (KW)	Rated Output Current (A)	Size H*W*D(mm)	Packing size(cm)	G.W. (kg)
EDS1000-2S0004	0.4	3	170*125*135.5	25*20*21	2.5
EDS1000-2S0007	0.75	4.7			
EDS1000-2S0015	1.5	7.5			
EDS1000-4T0007G/0015P/C	0.75	2.3			
EDS1000-4T0015G/0022P/C	1.5	3.7			
EDS1000-2S0022	2.2	10	230*155*164	33*24*25	4
EDS1000-2S0037	3.7	17			
EDS1000-4T0022G/4T0037P/C	2.2	5			
EDS1000-4T0037G/4T0055P/C	3.7	8.5			
EDS1000-4T0055G/4T0075P/C	5.5	13	290*200*187	38*29*27	6.5
EDS1000-4T0075G/4T0110P/C	7.5	17			
EDS1000-4T0110G/4T0150P/B	11	25	345*218*221	42*29*28	10.5
EDS1000-4T0150G/4T0185P/B	15	33			
EDS1000-4T0185G/4T0220P	18.5	39	430*260*261	52*34*36	18
EDS1000-4T0220G/4T0300P	22	45			
EDS1000-4T0300G/4T0370P	30	60	505*280*261	63*38*34	25.5
EDS1000-4T0370G/4T0450P	37	75			
EDS1000-4T0450G/4T0550P	45	91	645*370*267	77*50*49	52
EDS1000-4T0550G/4T0750P	55	112			
EDS2000-4T0750G/4T0900P	75	150	680*480*369	84*64*60	70
EDS2000-4T0900G/4T1100P	90	176			
EDS2000-4T1100G/4T1320P	110	210	750*480*381	91*64*63	99
EDS2000-4T1320G/4T1600P	132	253			
EDS2000-4T1600G/4T2000P	160	304	1500*600*500	170*80*77	180
EDS2000-4T2000G/4T2200P	200	380	1600*600*500	180*80*78	180
EDS2000-4T2200G/4T2500P	220	426			
EDS2000-4T2500G/4T2800P	250	474	1600*700*500	180*90*78	190
EDS2000-4T2800G/4T3150P	280	520			
EDS2000-4T3150G/4T3500P	315	600			
EDS2000-4T3500G/4T3750P	350	650			
EDS2860-4T0075	7.5	17	255*260*620	66*28*26	25
EDS2860-4T0110	11	25			
EDS2860-4T0150	15	33	255*280*660	77*42*40	36
EDS2860-4T0185	18.5	39	300*320*735	77*42*40	36
EDS2860-4T0220	22	45			
EDS2860-4T0300	30	60	300*360*830	97*35*30	46
EDS2860-4T0370	37	75			
EDS2860-4T0450	45	91	340*435*935	126*45*33	90
EDS2860-4T0550	55	112			

EDS800 Series Universal mini inverter (CE Approval)

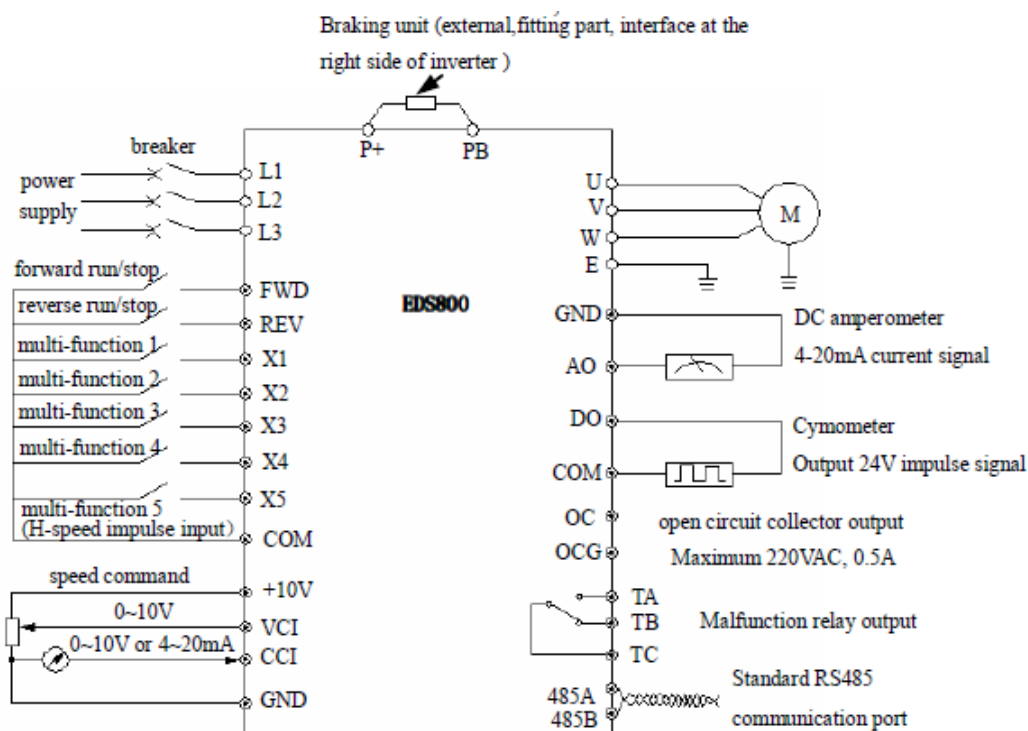


■ Features of EDS800

- Small size (126*85*141.5mm), high cost performance.
- Can make up of inverter network independently and can set to be mainframe or sub-device
- Pulse/analog input output channels;
- 7 segments speed control;
- Multiple running frequency/command specified channels;
- Can realize copy for parameters by using long-distance keyboard;
- Hi performance isolating OC output, AC or DC load of 220V/0.5A can be connected;
- Traversal function can be widely applied to all kinds of spinning devices;
- Built-in Braking unit
- Built-in user's timer/counter

Power range: 0.2kw~1.5kw 220V±15%; 0.75kw~1.5kw 380V±15%

■ Basic running wiring diagram



EDS1000 Series Multi-function universal inverter (CE Approval)

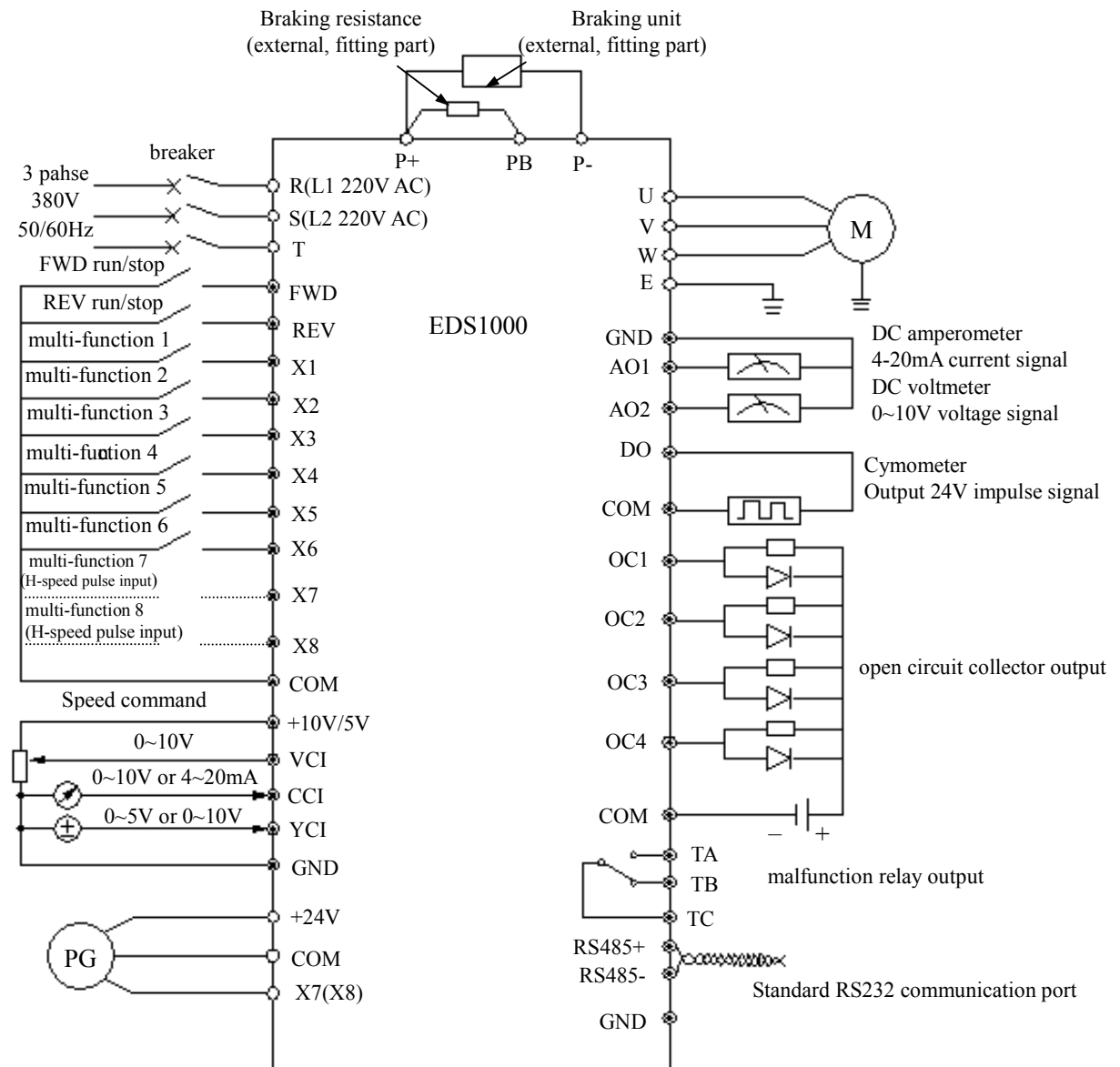


■ Features of EDS1000

- Small volume, be suitable for all kinds of spot.
- 150% of rated torque at 1 Hz frequency.
- Built-in PID controller, can realize constant pressure (flux etc.) “One drives multiple devices” control (function in option)
- 16 (maximum) section speed control
- 0-20KHz pulse input output interface
- Spinning traverse function.
- Bears automatic voltage regulation (AVR) and automatic current limiting function,
- RS485 communication interface (part in option)

Power range: 0.4kw~7.5kw 220V $\pm 15\%$; 0.75kw~55kw 380V $\pm 15\%$; 18.5kw~132kw 690V

■ Basic running wiring diagram



EDS2000 Series Hi-performance universal inverter



■ Features of EDS 2000

- Takes DSP as the core, Dual CPU Control (Including the keypad CPU control)
- Low frequency (1Hz) large output torque.
- Great overload capacity. 200% of rated current transiently
- 10 digital input channel, 3 analog input channel, can accept 0~10V, 0~5V and 4~20mA input signal.
- 2 pulse input channel (maximum 50 KHz), 2 OC digital output channel and 1 hi-speed pulse
- Output channel are available.
- Two 0~10V voltage and two 4~20mA current analog quantum output channel.
- Output channel can be connected to standard secondary meter
- 16 (maximum) section speed control
- RS485 interface as standard part
- Remote keypad can be as long as 1000 meters off the inverter.

Power range: 2.2kw~450kw 380V ± 15%

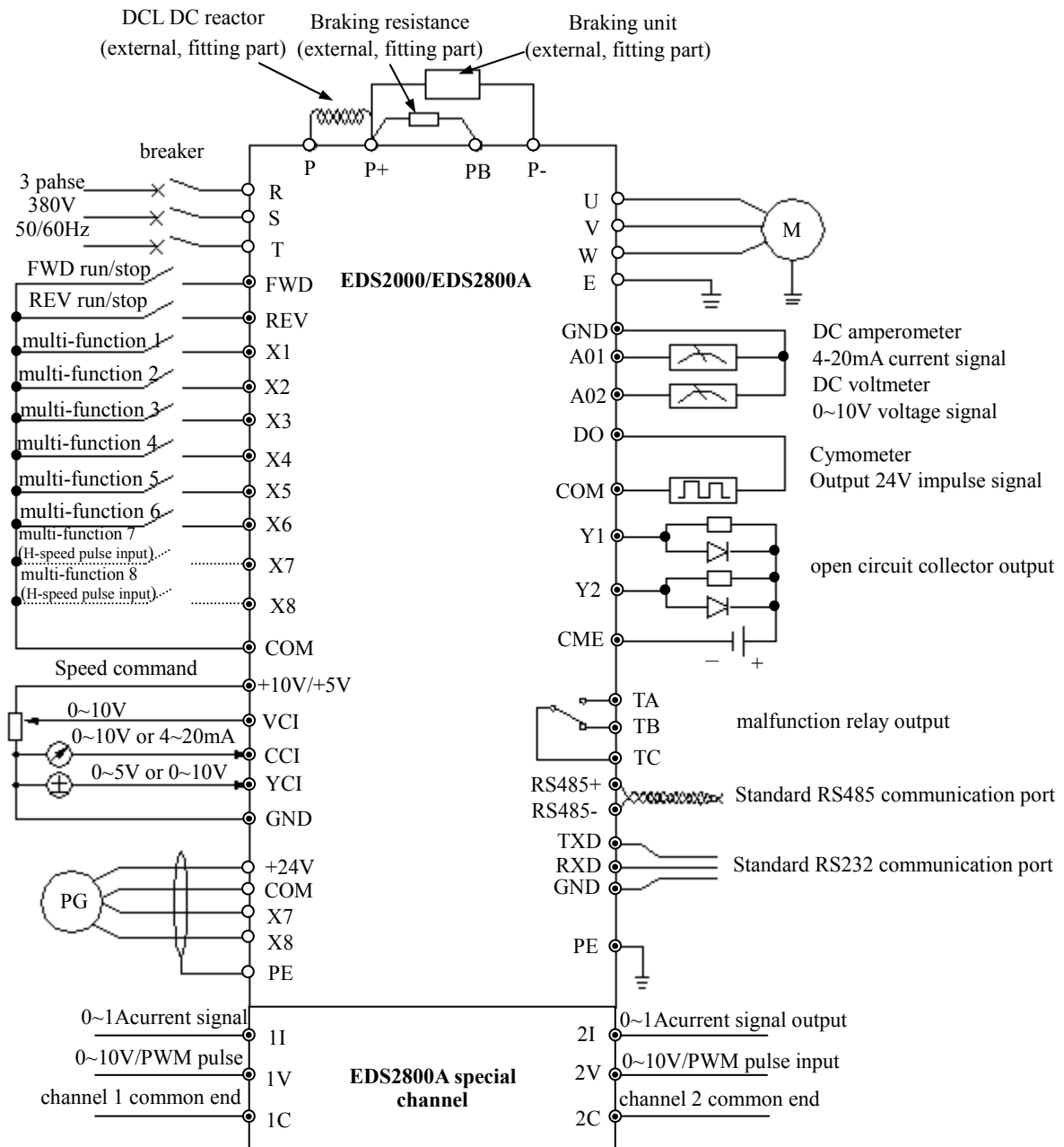
EDS2800 series inverter



- Have all the features of EDS2000 series
- Full load output at Low-frequency (0.1Hz).
- With powerful over load ability--- 150% of rated current 3 minutes, 200% of rated current 5 seconds.
- Perfect control function for **injection molding machine**.
- Provide 2-way 0-1A and 2-way 0-10V isolated analog input signal channels
- Effective control of the excitation current can control the heating of injection molding machines effectively.

Power range: 11kw~75kw 380V±15%

Basic running wiring diagram



EDS2860 Series Special inverter for injection molding machine (CE Approval)



- Takes DSP as the core
- Double loop for power source/power save running, automatic reset and power-off reset function ensure production continuity and efficiency
- Double channels input, can accept 0~1A signal and pulse signal under 200Hz
- Great overload capacity: 150% of rated current for 3 minutes, 200% of rated current for 5 seconds
- No high pressure flooding energy loss, power save rate reaches 25%~65%.
- Temperature of the oil is stable, cooling water can be saved by above 30%;
- The investment can be returned for about 6-15 months by power save.

Power range: 7.5kw~75kw 380V $\pm$ 15%

EDS2080 Series bypass/variable frequency integrated energy saving cabinet inverter



- Have all the features of EDS2000 series
- Bears automatic voltage regulation (AVR) and automatic current limiting function
- Power source/Variable frequency dual-loop operation with automatic reset, power-off reset function
- Be able to retain the original loop system
- Can add isolating switch, breaker/ fuse, AC input / output reactors, Input / output EMI filters and other accessories according to customers' need.
- Can add ammeter, voltmeter, cymometer and etc. according to customers' need.
- Users only need to connect the wiring and energy-saving renovation project can be completed.

Power range: 7.5kw~400kw 380V $\pm$ 15%

