

Performance			SVC control mode	V/F control mode				
	Speed control mode		Hybrid vector control mode Speed Sensorless High Speed and Torque Control	V/F control mode				
	Max rotate speed		Relate to 245Hz	400Hz				
	Carrier frequency		1.0 ~ 10.0kHz (Power derating when the carrier frequency is higher than the default value)					
	Over load capacity		150% rated current for 1 minutes					
	Speed control range		1:100 (General motor)	Approximately 1:50				
Cor	Speed Frequency	Digital input (-10°C ~ 40°C)	±0.5%	$\pm 0.01\%$ (Frequency accuracy)				
Control performance	Accuracy	Analog input (25°C±10°C)	±0.5%	$\pm 0.2\%$ (Frequency accuracy)				
perf	Speed control mode		Robust control	1				
for	Speed control response		200rad/s (-3dB)	/				
ma	Torque control accuracy		<±8% (General motor)	/				
anc	Torque	e control response	2krad/s (-3dB)	/				
ĕ	Cons	tant power range	1:4	1				
	Spe	eedless control	1	1				
	Sta	art-up torque	More than 150%					
	1	Forque limit	Can be set within four quadrants of forward motoring, forward generating, reverse motoring and reverse generating. Setting range: 0~150% (up to 200% due to different motors in the drive combination)	Available for motoring and generating states with 0~150% range				
Main control protecti performa	& operat self-le Mecha mode, function freque speed	ion, prohibit reverse mod arning, Torque boost, Suj nical loss compensation s Built-in PID function, Mo on, fault retry, timing cont ncy hold function, Mome reached detection output,	torque control switching operation, the default speed tracking fast start function, high efficiency le selection, to prevent regenerative stall function, DC braking, energy braking, static and rotation ppress unstable function, Removable terminal block with parameter backup function, Droop control, setting, Speed deviation limit during acceleration / deceleration, Multi-speed program operation, Stop otor running, skip function, contact acceleration and deceleration function, cooling fan ON / OFF trol, S curve acceleration and deceleration, acceleration / deceleration time switching, speed / nt detection output, 2-wire and 3-wire control, forward and reverse switching, pre-excitation, torque / , FCL over-current fault avoidance, MODBUS communication.					
	option speed	al fault protection, extern	GBT module abnormalities, overcurrent protection, over voltage protection, under voltage protection, nal fault protection, Over speed and over torque protection, communication error, speed control error, contactor open protection.					
Operati keypa		ter via the operation keypad ck						
	Application site		Vertical installation indoor, avoid direct sunlight; no visible dust, corrosive gases, flammable gas, oil mist, water vapor, drip or salt and so on					
-	Altitude		Under 1000 meter. ( Derate when higher than 1000 meters , output current reduce about $10\%$ of rated current per 1000 meter height )					
Bnvi	Enviro	oment temperature	-10 °C ~ $+40$ °C. environment temperature between $40$ °C ~ $50$ °C need to lower output power					
Enviromental	Envi	roment humidity	Smaller than 95%RH, no drop condenses					
	Vibration		Smaller than 5.9m/s <sup>2</sup> (0.6g)					
	Storage temperature		-40°C ~ +70°C					
	Protection grade		IP20					
Structure	Co	ooling method	Forced air cooling					
Installation method			Wall hanging and cabinet installation					



# EN700 intelligent high performance frequency inverter



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# **About us**



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





## EN700 intelligent high performance frequency inverter

EN700 series frequency inverter is a new generation of motor driver. It is innovative on the basis of classical flux vector control. It can accurately measure and calculate various parameters of motor, monitor and compensate mechanical loss and motor temperature, etc. High speed and powerful computing capabilities enable efficient and complex drive control to meet the drive requirements of a wide range of high-end equipments.







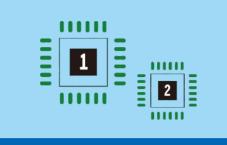


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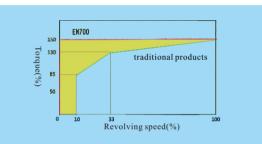


opportunities for innovation, fully reserved for a variety of industrial application parameters of the secondary development.



Dual-core operation: faster than ever before

Dual CPU system operates faster and more responsive. Within 200mS to complete a smooth start for free high-speed rotating motor.



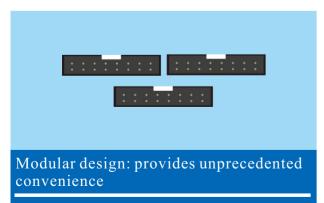
#### Rich in function configuration: meeting various application requirements

Motor temperature detection, mechanical loss compensation, suppression of unstable function; power 4.0~55KW section is equipped with built-in braking unit, 30KW and above standard with builtin DC reactor.



Intelligent learning: no need to set more parameters

Intelligent induction user-set habits, self-identification user-set parameters, with the menu of check mode, can monitor multiple sets of parameters.



Terminal can be removed and backup data, so no need to disassemble the control cables and reset parameters.



A variety of protocols: the ultimate refreshing protocol experience

Powerful access to networking capabilities, support for Canopen, Modbus, Ethercat, Profibus-DP, and other protocols. Monitor and operate from your PC.



**Product features** 

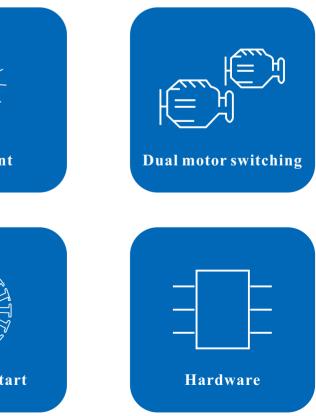


**Parallel expansion** 

**Speeding start** 

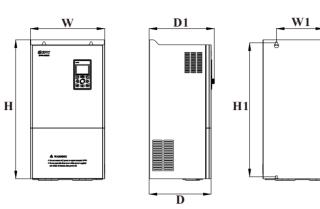
## Intelligent drive Precision motion

- First-class control algorithm
- Abundant application features
- Abundant scalability and more user-friendly operation
- Complete hardware configuration and high reliability
- Aesthetic body and scientific structure design



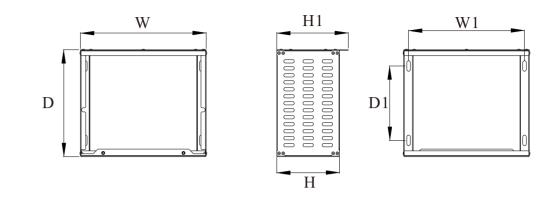






Inverter model	W ( mm)	W1(mm)		H1(mm)	D(mm)	D1(mm)	Fix Hole (mm)	Packing size (cm)	Gross weight (kg)
EN700-4T0040		100	320	306	192	205	6	38.5*23.5*27	8
EN700-4T0055	160								
EN700-4T0075									
EN700-4T0110	210	150	365	349	200	213	7	42.5*28.5*28	11
EN700-4T0150	210								
EN700-4T0185	250	190	420	400	210	223	9	48*31.5*28.5	16
EN700-4T0220									10
EN700-4T0300	200	220	560	540	260	263	9	62*37.5*43.5	27
EN700-4T0370	300								37
EN700-4T0450	326	260	610	590	265	278	9	68.5*42*46	48
EN700-4T0550	520								40
EN700-4T0750	360	250	605	575	325	348	13	69*46*53.5	(9)
EN700-4T0900									68
EN700-4T1100	430	250	710	680	340	353	13	79*53*55	88
EN700-4T1320									89
EN700-4T1600	510	370	1069	1035	430	443	13	114*61*64	148
EN700-4T2000	560	420	1069	1035	430	443	13	114*66*64	170
EN700-4T2200									168

## **Optional base and base dimensions**



Inverter model	Standard base	W(mm)	D(mm)	H(mm)	W1(mm)	D1(mm)	Mounting holes (mm)
EN700-4T0750	SP-BS7-0900	360	306	180	332	213	30*10
EN700-4T0900							
EN700-4T1100	SP-BS7-1320	430	320	180	402	228	30*10
EN700-4T1320							
EN700-4T1600	SP-BS7-1600	510	404	205	446	340	Φ10
EN700-4T2000	SP-BS7-2200	560	404	204	496	340	Φ10
EN700-4T2200							

The keyboard size (unit: mm)

