

# HD 3N High Performance Smart Inverter



**HD 3N is small-sized of inverter with high performance facing to general industry.**

Three phase      380 ~ 460V..... 7.5 ~ 75kW

## Product Features

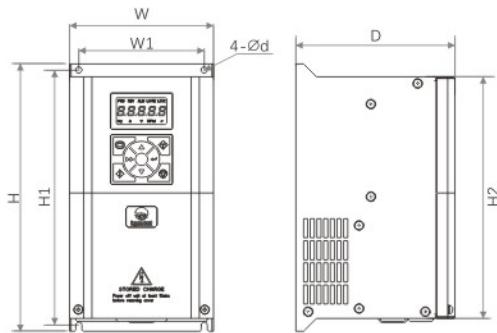
High performance, Small volume	High performance SVC control, high accuracy. Small volume, about 70% of general inverter and installation space can be saved.
Flexible digital input signal	Programmable bipolar signal input. Compatible DC and AC signal input: DC input voltage range 15VDC~56VDC, Compatible 24VDC/ 36VDC/ 48VDC; AC input voltage range 12VAC~54VAC, Compatible 36VAC/ 48VAC.
Abundant industry application	Progress PID regulatory function. Simply PLC function. The textile pendulum frequency function. Fixed length control function. Multi-speed control.
Energy brake unit	Build-in.
Standard LCD keypad	English display, Convenient to be used.

## Technical Data

Electrical data	
Input voltage	Three phase 380~460V Wave deviation not exceed±10%, Unbalanced rates < 3%
Input frequency	50/60Hz±5%
Output voltage	0~Input voltage
Output frequency	0~400.0Hz
Performance	
Control mode	V/f control, SVC control
Overload ability	2minutes for 150% rated output current, 10 seconds for 180%rated output current
Velocity resolutions	Digital setting: 0.01Hz, Analogue setting: 0.1% × Max.frequency
SVC control	Speed control accuracy: ±0.5%. Speed control range: 1:100. Torque control respond: <200ms. Start torque: 180% rated torque/0.5Hz.
Input/Output	
Analogue power supply	+10V, load ability 100mA
Digital power supply	+24V, load ability 200mA
Analogue input	AI1 : Voltage 0~10V AI2 : (Voltage/current is selectable)0~10V/0~20mA
Analogue output	AO1~AO2 : (Voltage/current is selectable ) 0~10V/0~20mA
Digital input	DI1~DI6, Optical decoupled input *DI6 can be selected as high speed pulse input
Digital output	DO1~DO2, Optical decoupled output *DO2 can be used as high speed pulse output once again
Relay output	R1A/R1B/R1C Contactor capacity: 250VAC/3A or 30VDC/1A
Environmental characteristics	
Work temperature	-10~+40°C no deduction; Output current should be 2% derated for each 1°C over 40-50°C
Storage temperature	-40~+70°C
Use environment	Not at the direct sunlight, oily dust, corrosive gas, steamer, drops and salts
Altitude	No derating under 1000meters and derate above 1000meter and under 4000meters
Humidity	Less than 95% RH, no water drops
Vibration	3.5m/s <sup>2</sup> in 2~9Hz 10m/s <sup>2</sup> in 9~200Hz (IEC60721-3-3)

HD 3N High Performance Smart Inverter			Power Selection			Braking Resistor(recommendation)		
Size	Product Model	Motor Power kW	Rated Capacity kVA	Rated Input Current A	Rated Output Current A	Resistor Range Ω	Resistor Power kW	Energy Brake Units
F3	HD3N-4T7P5G	7.5	11	19	17	60~80	0.8	Build-in
F3	HD3N-4T011G	11	16	28	25	40~50	1.2	Build-in
F4	HD3N-4T015G	15	21	35	32	30~40	1.5	Build-in
F4	HD3N-4T018G	18.5	24	39	37	25~30	2	Build-in
F5	HD3N-4T022G	22	30	47	45	20~25	2.5	Build-in
F5	HD3N-4T030G	30	39	62	60	15~20	3.0	Build-in
F6	HD3N-4T037G	37	49	77	75	15~20	4	Build-in selection
F6	HD3N-4T045G	45	59	92	90	10~15	4.5	Build-in selection
F7	HD3N-4T055G	55	72	113	110	10~15	5.5	Build-in selection
F7	HD3N-4T075G	75	100	156	152	8~10	7.5	Build-in selection

## Production And Installation Size



Size	Production Size(mm)			Installation Size(mm)				GW
	W	H	D	W1	H1	H2	d	
F3	140	260	155	122	248	235	6	5.4
F4	180	298	175	160	284	270	6	8.3
F5	220	375	190	200	360	345	7	13
F6	260	440	230	220	420	403	8	21
F7	300	555	270	240	535	515	10	36

