

HD 09 Smart Inverter

HD 09-S High-performance Smart Inverter



HD 09 is general mini-inverter whose power is small and its sales market in on OEM.
HD 09-S is high-performance inverter whose power is small and its sales market in on OEM.

Single phase 200 ~ 240V..... 0.25 ~ 2.2kW
 Three phase 380 ~ 460V..... 0.4 ~ 5.5kW

Product Features

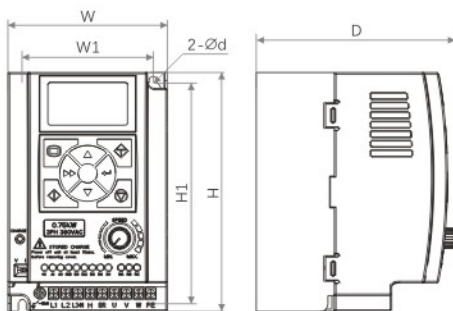
Ultrathin structure design	Max. thickness only 145mm, can be installed side by side and space will be saved.
Big-sized LCD display	Blue background display, 5 segments, 5 state indicators, 5 units indication.
Personalized button remark	Standard design IEC60417、GB/T15192.
Build-in EMI filter	Meet EMI requirement of standard IEC61800-3. Easy to disconnect, and can be used in low current leakage.
Intuitive product power label	Can recognize product in convenience and fast speed.
Support built-in brake resistor	Built-in 100W ultrathin brake resistor is selectable.
Insolated potentiometer	Can set main and vice frequency pre-given.
Installation-wiring-running	Simple three steps, can be used as soon as be wired, Convenient.
Sheet metal shell, plastic case	Convenient to be installed, top sealed and good protection.

Technical Data

Electrical data	
Input voltage	Single phase 200 ~ 240V Three phase 380~460V wave deviation not exceed±10%, unbalanced rates < 3%
Input frequency	50/60Hz±5%
Output voltage	0~Input voltage
Output frequency	HD 09: 0~1000.0Hz HD 09-S: 0~400.0Hz
Performance	
Control mode	HD 09: V/f control HD 09-S: V/f control, SVC control
Overload ability	2 minutes for 150% rated output current, 10 seconds for 180%rated output current
Velocity resolutions	Digital setting: 0.01Hz, Analogue setting: 0.1% × Max.frequency
Input/Output	
Analogue power supply	+10V, load ability 100mA
Analogue input	AI: (Voltage/current is selectable)0~10V/0~20mA Keypad potentiometer: 0~5V
Analogue output	AO: Voltage 0~10V
Digital input	DI1~DI4, Optical decoupled input *DI4 can be selected as high speed pulse input
Digital output	DO, Optical decoupled output *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 ² in 2~9Hz 10m/s ² in 9~200Hz (IEC60721-3-3)

HD 09 Smart Inverter HD 09-S 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
Size A	HD09-2S0P2G	0.25	0.6	4.3	1.7	-	-	-
	HD09-2S0P2G-S							
Size A	HD09-2S0P4G	0.4	1.0	5.8	2.5	-	-	-
	HD09-2S0P4G-S							
Size A	HD09-2S0P7G	0.75	1.5	10.5	4.0	-	-	-
	HD09-2S0P7G-S							
	HD09-2S0P7G-B-S					150~250	0.1	Build-in
Size A	HD09-2S1P5G	1.5	2.8	18.5	7.5	-	-	-
	HD09-2S1P5G-S							
	HD09-2S1P5G-B-S					100~150	0.2	Build-in
Size A	HD09-2S2P2G	2.2	3.8	24.1	10.0	-	-	-
	HD09-2S2P2G-S							
Size A	HD09-4T0P4G	0.4	1.0	1.8	1.4	300~400	0.08	Build-in
	HD09-4T0P4G-S							
Size A	HD09-4T0P7G	0.75	1.5	3.4	2.3	250~350	0.1	Build-in
	HD09-4T0P7G-S							
Size A	HD09-4T1P5G	1.5	2.5	5.2	3.8	200~300	0.2	Build-in
	HD09-4T1P5G-S							
Size A	HD09-4T2P2G	2.2	3.4	7.3	5.1	150~250	0.25	Build-in
	HD09-4T2P2G-S							
Size B	HD09-4T4P0G	4.0	5.9	11.9	9.0	100~150	0.3	Build-in
	HD09-4T4P0G-S							
Size B	HD09-4T5P5G	5.5	8.5	15.0	13.0	80~100	0.5	Build-in
	HD09-4T5P5G-S							

Production And Installation Size



Size	Production Size(mm)			Installation Size(mm)			GW kg
	W	H	D	W1	H1	d	
Size A	100	150	125	82	140	5	1.5
Size B	116	185	145	98	174	6.5	2.7