

CT113 special inverter for middle and high frequency power supply



CT113 series special inverter is based on the hardware platform of Dolycon vector inverter CT110. It is equipped with mains synchronization function and widely applied in medium power, shore power, fire emergency power and the power system of public facilities in subway, airport, hospital and large shopping mall.

Benefits:

- V/F separate control function to satisfy industry craft requirements.
- Automatically search and follow resonance points to ensure real-time system efficiency.
- Switch voltage lock and current lock modes to meet different industrial requirements.

Models table:

Inverter type	Input current (A)	Output current (A)	Power capacity(KW)
CT113-4T-0.7	5.0	3.8	1.5
CT113-4T-1.5	5.8	5.3	2.1
CT113-4T-2.2	12.0	9.5	3.7
CT113-4T-4.0	18.5	14.0	5.4
CT113-4T-5.5	22.5	18.5	7.1
CT113-4T-7.5	30.0	25.0	9.5
CT113-4T-11	39.0	32.0	12.2
CT113-4T-15	45.0	38.0	14.5
CT113-4T-18.5	54.0	45.0	17.1
CT113-4T-22	68.0	60.0	22.8
CT113-4T-30	84.0	75.0	28.5
CT113-4T-37	98.0	92.0	35.0
CT113-4T-45	123.0	115.0	43.7
CT113-4T-55	157.0	150.0	57.0
CT113-4T-75	188.0	180.0	68.4
CT113-4T-90	221.0	215.0	81.7

CT113-4T-110	267.0	260.0	98.8
CT113-4T-132	309.0	305.0	115.9
CT113-4T-160	344.0	340.0	129.2
CT113-4T-185	384.0	380.0	144.4
CT113-4T-200	429.0	425.0	161.5
CT113-4T-220	484.0	480.0	182.4
CT113-4T-250	539.0	530.0	201.4
CT113-4T-280	612.0	600.0	228.0
CT113-4T-315	665.0	650.0	247.0
CT113-4T-400	785.0	790.0	273.6
CT113-4T-500	890.0	950.0	326.8
CT113-4T-630	1230.0	1200.0	456.0
CT113-4T-700	1330.0	1300.0	494.0
CT113-4T-800	1500.0	1440.0	547.2
CT113-4T-1000	1780.0	1720.0	653.6

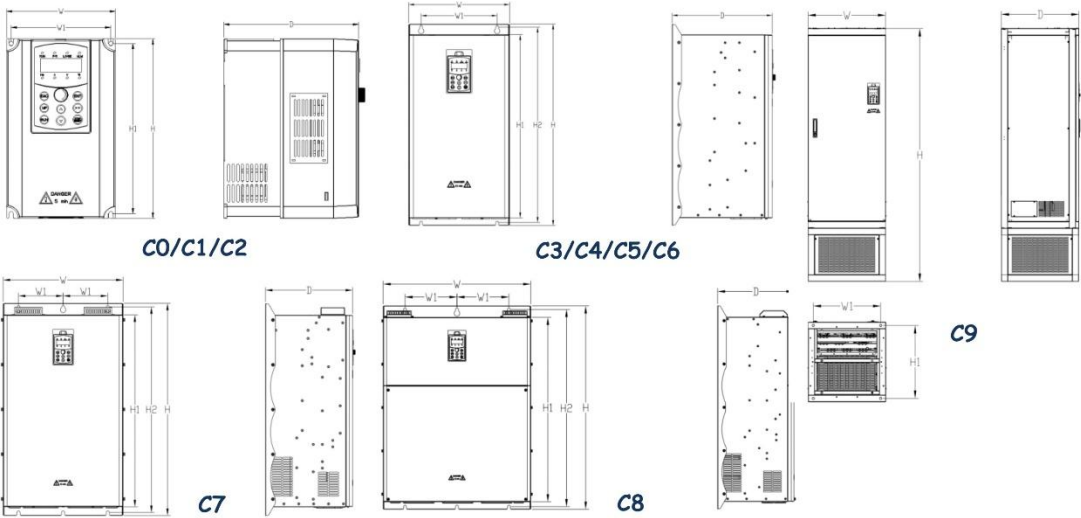
Technology date table:

Input and output parameters	Input voltage	3PH 380VAC±15%.
	Input frequency	50~60Hz±5%
	Output voltage	0~Rated input voltage
	Output frequency	50~3000Hz
Technical control parameters	Control mode	current control, voltage control
	Overload capacity	150% of rated current: 60s; 180% of rated current: 10s; 200% of rated current: 1s

	ACC and DEC time	0.1~3000.0s
	Frequency setting	Keypad setting, analog quantity setting, multi-step speed setting, PID setting, 485 communication setting
	Output voltage setting method	Keypad setting, analog quantity setting, multi-step speed setting, PID setting, 485 communication setting
Control terminals	Digital input	Standard 5-channel inputs
	Analog input	Standard 2-channel inputs, AI0:0~10V keyboard knob, AIN: -10~10V input optional.
Communication interface	RS485 communication	RS485 communication interface for external RS485 communication, Modbus protocol (RTU mode)
Fault protection	ACC over-current, DEC over-current, constant speed over-current, ACC over-voltage, DEC over-voltage, constant speed over-voltage, busbar under voltage, motor overload, inverter overload, input power failure, output phase loss, rectifier module overheating, inverter module overheating, external fault, communication fault, current detection fault, etc.	
Keypad display	LED display	Highlight LED digital tube displays the inverter information
Others	Running environment	Indoors, less than 1km above sea level, without dust, corrosive gases or direct sunlight
	Ambient temperature	-10~+40°C, derate 1% for every additional 1°C when the ambient temperature is between 40~50°C
	Humidity	5~95% (no condensation)
	Altitude	0~2000m, derate 1% for every additional 100m when the sea level is above 1000m
	Vibration	Less than 0.5g
	Storage temperature	-40~+70°C

Size table:

Mode	Dimension (mm)						Installation hole (mm)	Cabinet type
	W	H	D	W1	H1	H2		
CT113-4T-0.7	101	152	127	89	140	---	5	C0
CT113-4T-1.5								
CT113-4T-2.2								
CT113-4T-4.0	140	230	172	128	218	---	5.5	C1
CT113-4T-5.5								
CT113-4T-7.5	165	285	200	153	273	---	5.5	C2
CT113-4T-11								
CT113-4T-15	214	410	203	184	360	385	7	C3
CT113-4T-18.5								
CT113-4T-22								
CT113-4T-30	250	450	230	220	400	425	7	C4
CT113-4T-37								
CT113-4T-45	300	600	280	240	540	580	9	C5
CT113-4T-55								
CT113-4T-75	330	660	330	250	600	640	9	C6
CT113-4T-90								
CT113-4T-110								
CT113-4T-132	485	850	355	180	772	826	11	C7
CT113-4T-160								
CT113-4T-185								
CT113-4T-200								
CT113-4T-220	683	940	355	240	860	910	13	C8
CT113-4T-250								
CT113-4T-280								
CT113-4T-315								
CT113-4T-350	600	1900	600	520	548	---	14	C9
CT113-4T-400								
CT113-4T-500								



C0/C1/C2

C3/C4/C5/C6

C7

C8

C9