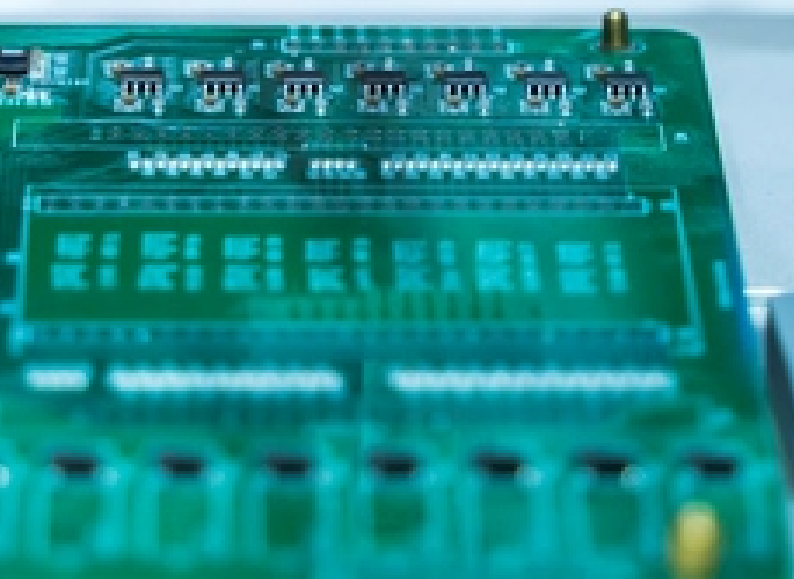


**SY380**

**VOLTAGE BOOSTER**

4kW ~ 22kW



**HmT**

**FRECON**

# Features



## The SY380 series inverter

The specialized SY380 variable frequency drive (VFD) boosts a 220Vac 1-phase input to a 380Vac 3-phase output. This allows for larger 3-phase inductive motors of up to 22kW to be powered from a 220Vac 1-phase supply.

## Applications

The Sy380 inverter is tailored for use in small farms, workshops, and rural regions where only a 220V AC power supply is available. It effectively transforms the 220V single-phase input into a 380V three-phase output. With this capability, users can now operate typical three-phase motors equipment such as compressors, hydraulic pumps, water pumps, and extractor fans using a standard 220V AC power source.

## Derating Design and High Reliability

The inverter is designed with derating in mind. Derating is the practice of reducing the load on an electrical component to ensure its longevity and reliability. By incorporating a derating design, the SY380 series inverter can operate under a wide range of conditions while maintaining high reliability and performance.



# Features



## Compact and Cost-Effective

Since residential - and smaller industrial premises are supplied from 1-phase, it saves on requiring to get a 3-phase connection from the utility supplier. Supplied 3-phase connections attracts a higher monthly connection and usage fee than 1-phase.

## Multiple Protections

The SY380 series inverter is equipped with multiple protection features. These protections are designed to safeguard both the inverter and the connected motor from potential faults, such as overcurrent, overvoltage, undervoltage, overheating, and short circuits. These protections enhance the safety and reliability of the system.

## Rich Functions

The inverter comes with a range of functions that make it versatile and suitable for various applications. Inverters are widely used in motor control applications across industries, and their ability to adjust the frequency and voltage allows for precise control of motor speed and torque.

## Overall

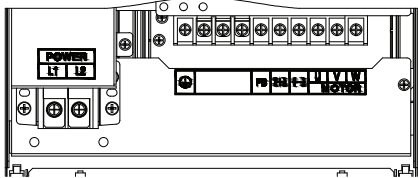
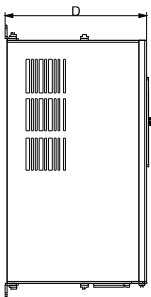
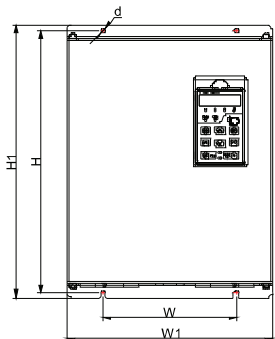
The SY380 series inverter offers an efficient and reliable solution for driving 380 Vac motors directly from a single-phase 220 Vac power source. Its compact size, cost-effectiveness, and various protection features make it a popular choice in certain applications where such requirements are needed.



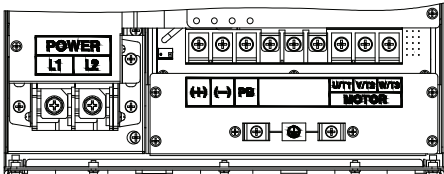
# Specifications



Model	Power Capacity (KVA)	Rated Input Current (A)	Rated Output Current (A)	Adaptive Motor		
				kW	HP	
Input voltage: single-phase: 220V, 50/60Hz -15%~+30%    Output voltage: Three-phase 0-440V						
SY380-2S-4.0B-H	5.2	30	9.5	3.7/4	5	
SY380-2S-5.5B-H	8	45	13	5.5	7.5	
SY380-2S-7.5B-H	9.8	56	17	7.5	10	
SY380-2S-011B-H	14.5	85	25	11	15	
SY380-2S-015B-H	18.8	110	32	15	20	
SY380-2S-018B-H	21.4	125	37	18.5	25	
SY380-2S-022B-H	26.2	153	45	22	30	
Model	Product installation size					
	W	W1	H	H1	D	Aperture (d)
SY380-2S-4.0B-H	205	315	403	418	216	7
SY380-2S-5.5B-H						
SY380-2S-7.5B-H						
SY380-2S-011B-H						
SY380-2S-015B-H	220	370	455	473	230	7
SY380-2S-018B-H						
SY380-2S-022B-H						



4.0-11KW Main Circuit Terminal



15-22KW Main Circuit Terminal