

# VEICHI

## HVLS FANS DRIVE IN310 series all-in-one machine



# VEICHI

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## Company Profile

Veichi Electric is a national high-tech and double-soft enterprise with the ability of R&D, manufacturing and selling of industrial automation products, since its establishment. Veichi has always been efficiently focused on the field of Electric Drive and Industrial Control. The headquarter is located at Suzhou, Jiangsu province, Veichi also has operation centers in Shenzhen, China and Ahmedabad, India. Now Veichi business has covered 49 countries and regions with the mission of serving customer worldwide with competitive, safe and reliable products and services.

After years of self-dependent research and innovation, Veichi Electric has developed a series of patented technologies with independent intellectual property rights. Up to December 31, 2019, a total of 117 patents have been authorized or under application, including 15 authorized invention patents, 66 utility model patents, and 10 design patents; 19 invention patents and 7 utility models patents are under application. Besides, 54 software copyrights have been authorized.

With the philosophy "technology-leading and quality first", Veichi Electric supply a wide range of products, including inverters from 0.4kW to 1,200kW, servo systems from 50W to 55kW, motion controllers, PLC and HMI, etc., to customer in lifting and mining facilities, rail transportation, machine tools, compressors, plastics, photovoltaic pumping, building materials, robots or manipulator, printing and packaging, textile and chemical fiber, metallurgy, municipal administration, petroleum, chemical and other industries.

In the next 10 years, Veichi Electric will strive to adhere to the core value of "market-guided and innovation-driven", and strengthen the core business of inverters, servo systems and motion controllers, and intelligent cyber systems. As being committed to offering good products and services persistently, the company will spare no effort to make contributions to promote the development of electric drive and industrial control.

## IN310 series all-in-one machine

### Integration Unification

High performance vector control with professional platform

Excellent motor control algorithm

Integration of synchronous and asynchronous motor drive

Integration of drive and peripheral electrical equipment

"A5 paper" structure size with flexible and small body

"Aesthetic" appearance with more amazing design

Easy operation

Rich extension interfaces, suitable for various conditions

PCB with the protection of Conformal Coating to ensure the stability and reliability of products



## Introduction of HVLS

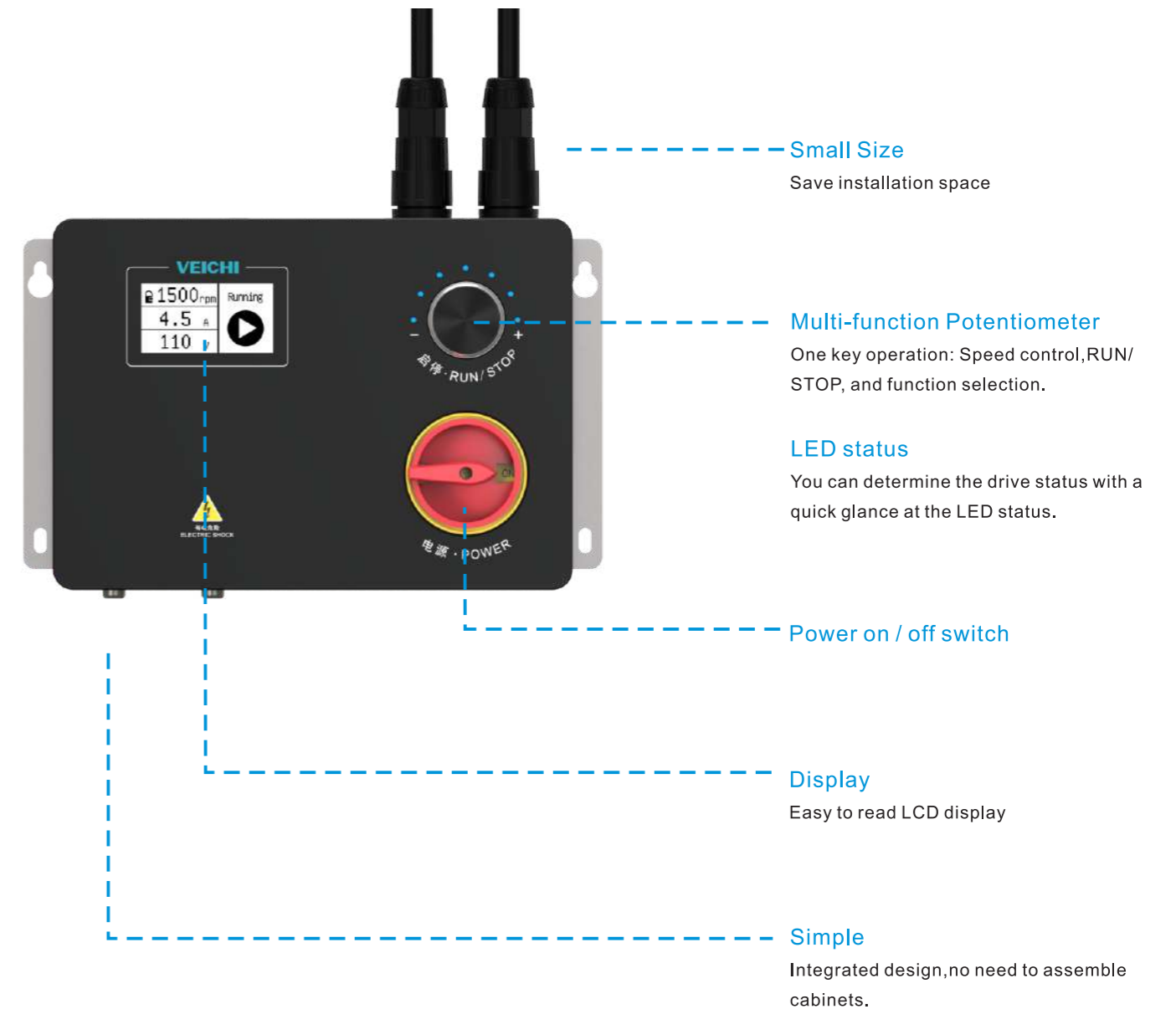
Technically, an HVLS — high-volume, low-speed — fan is a ceiling fan greater than 7 feet (2.1 meters) in diameter. Unlike a small, high-velocity fan that creates small, turbulent air streams that quickly disperse, an HVLS fan relies on size, not speed, to move a significant amount of air. They now are found in a wide variety of industrial, commercial and residential spaces, often working in conjunction with HVAC systems for energy savings. In fact, energy-efficient HVLS fans have quickly assumed a leading role in the green building movement.

The air from an HVLS fan moves toward the floor in a column that radiates in all directions, flowing horizontally until it reaches a wall — or airflow from another fan — at which point it turns upward and flows back toward the fan. This creates convection-like air currents that build as the fan continues to spin. The result is a silent, non-disruptive and even distribution of 3- to 5-mph breezes over large spaces, with a perceived cooling effect on occupants of up to approximately 10°F (6°C). During winter, HVLS fans effectively redistribute warm air trapped at the ceiling down to floor level.

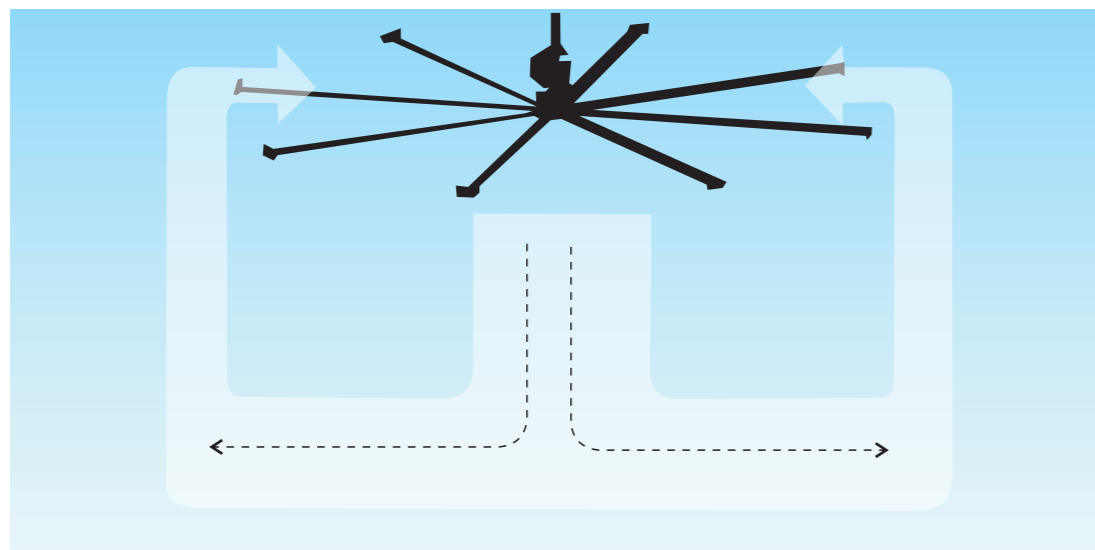


## Features

### Quick & Simple



## Cooling Effect Diagram





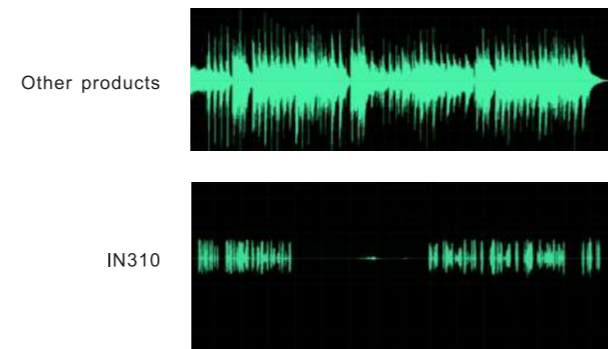
## IP68 waterproof terminal

It adopts top-in and top-out mode for wiring, convenient, safe and reliable



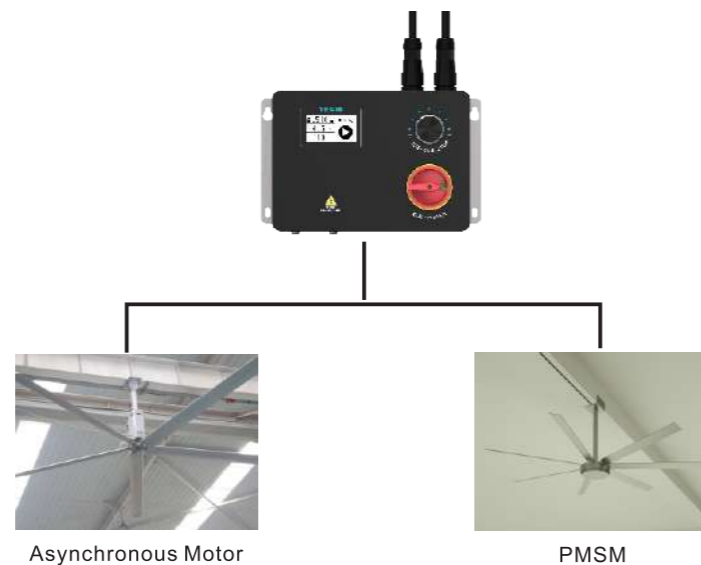
## Ultra-quiet operation

The latest noise reduction technology can reduce the electromagnetic noise while running. Silent operation creates a quiet environment for fan users.



## Synchronous and asynchronous drive

IN310 series could drive Asynchronous motor and PMSM.



## Wireless remote control

Wireless speed adjustment, start and stop operation can be carried out through combination of wireless remote control module and controller.



## Intelligent Cloud

Internet of things real-time communication, remote monitoring of field application, remote inspection and modification of equipment parameters.

Real time parameter	
Given frequency :	42.00 Hz
Output frequency :	0.00 Hz
Output current :	0.0 A
Input voltage :	421.6 V
Output voltage :	0.0 V
Solar array voltage :	Machine speed : 0 RPM
AC/DC switching status :	Torque given : 0.0 %
Output power :	Output torque : 0.0 %
DC bus voltage :	PID given value : 0.0 %
DC current :	1.49 A

# Model Description and Overall Dimension

## IN310 - T3 - 1R5 - E

Machine serials  
Code:IN310

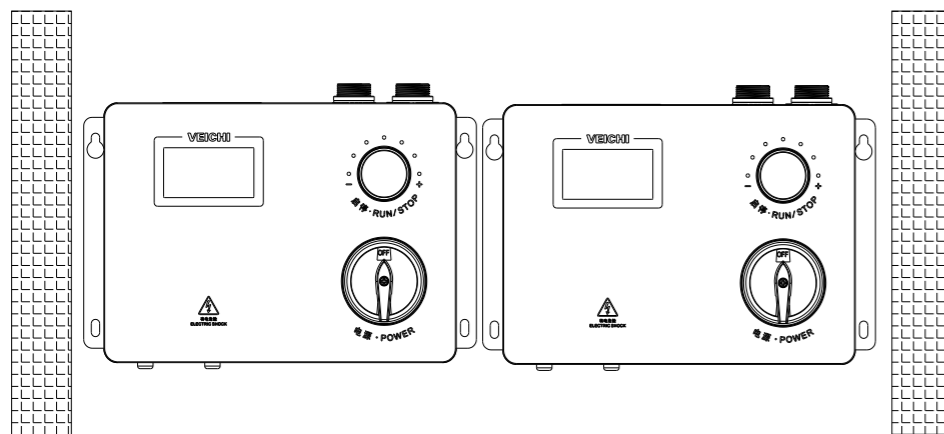
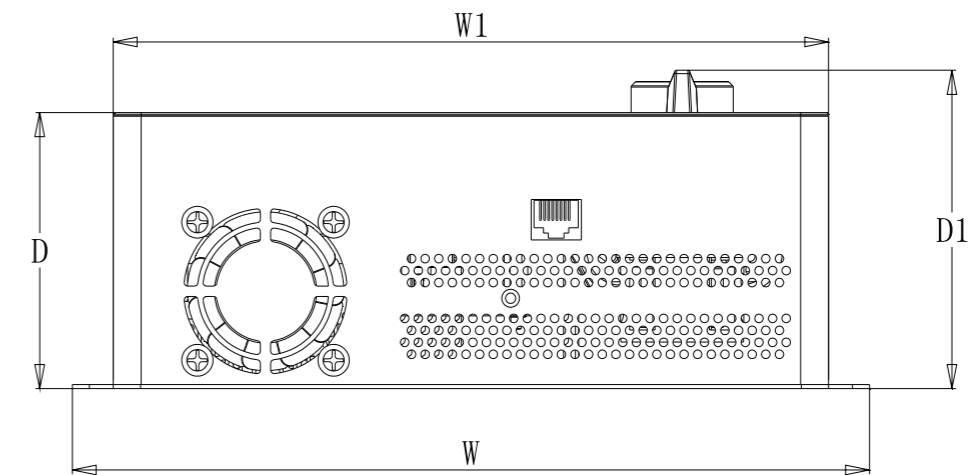
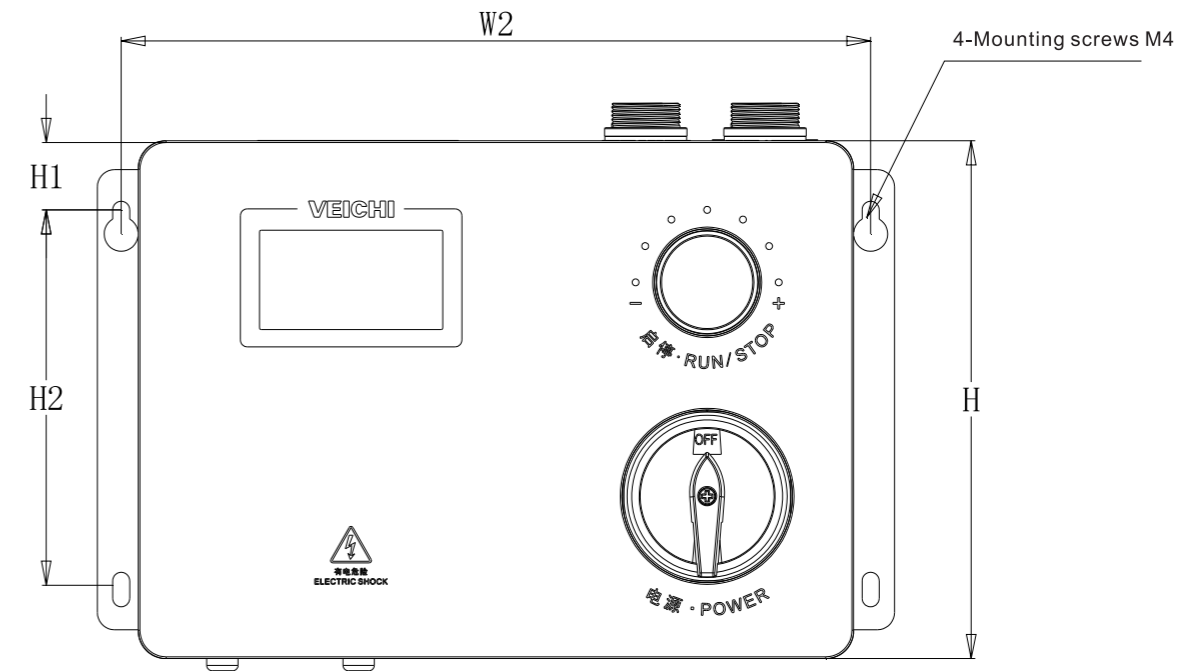
Voltage Level  
T:Three phase  
S:Single phase

Voltage Level  
2:220V  
3:380V

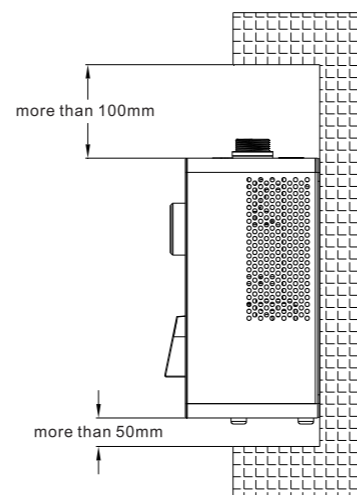
Accessories type  
E:Built-in sine wave filter  
None:No sine wave filter

Adapted motor power(KW)  
1R5:1.5  
2R2:2.2  
004:4

Model	Input voltage	Rated output current	
IN310-S2-1R5	220V	7A	Permanent magnet synchronous motor, synchronous reluctance motor, asynchronous motor , etc.
IN310-T3-1R5	380V	4A	
IN310-T3-2R2	380V	6A	



Any size of left and right space



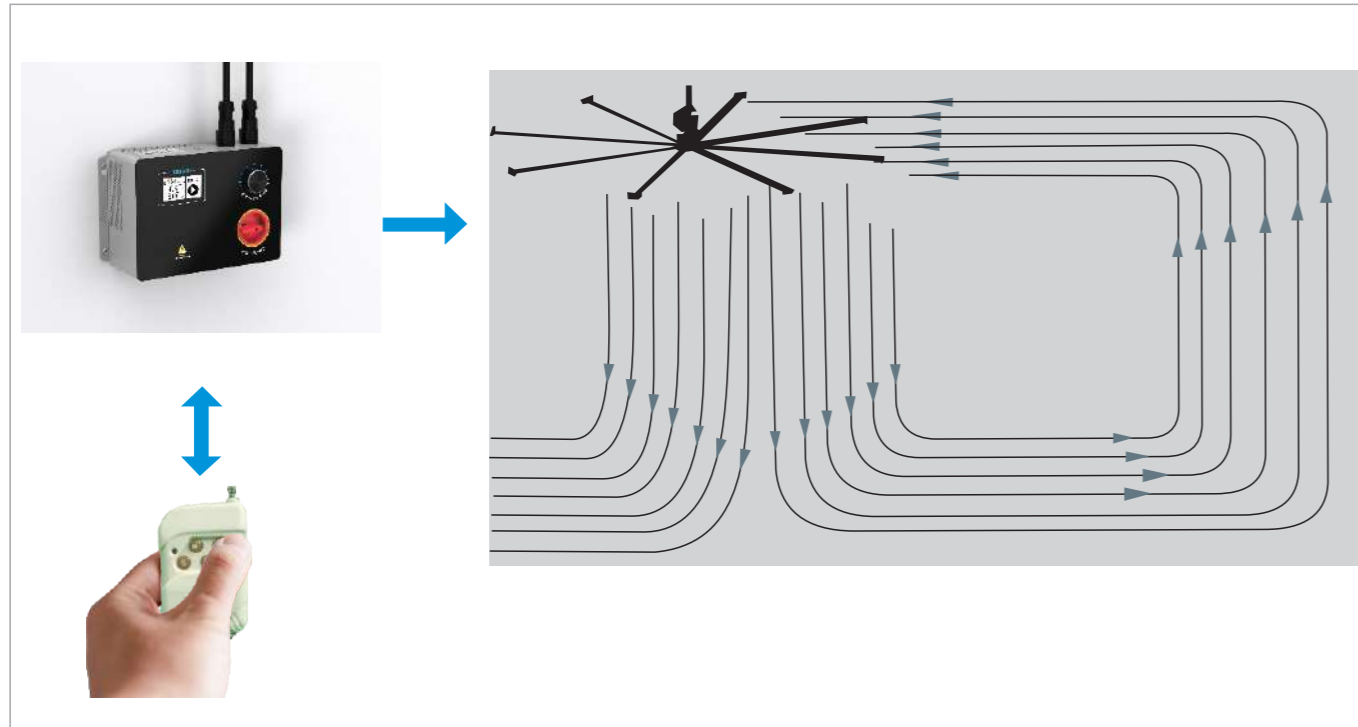
Up and down space

Inverter model	Dimensions (mm)					Installation dimensions(mm)			Installation Aperture
	W	W1	H	D	D1	W2	H1	H2	
IN310-S2-1R5	234	210	150	80	92	220	20	110	4-M4
IN310-T3-2R2									

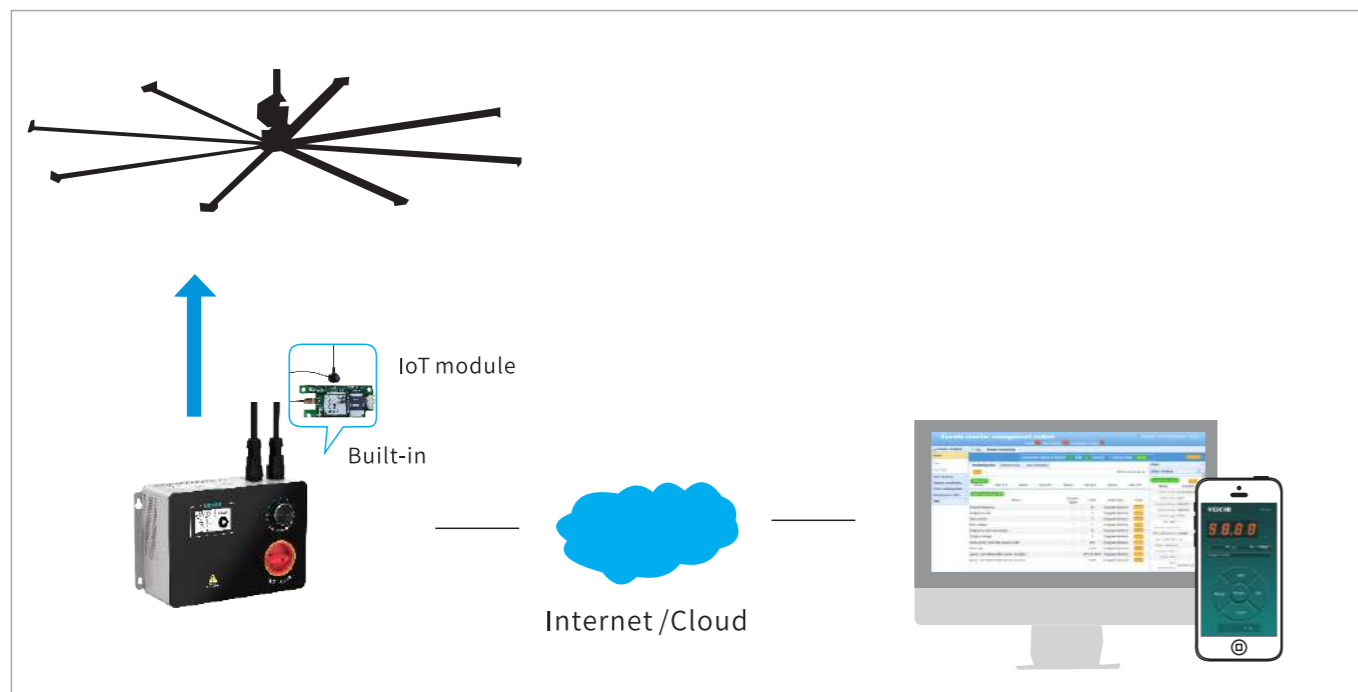


# Solutions for HVLS Fans

## Wireless remote control



## Smart Internet of Things



# Application case

