

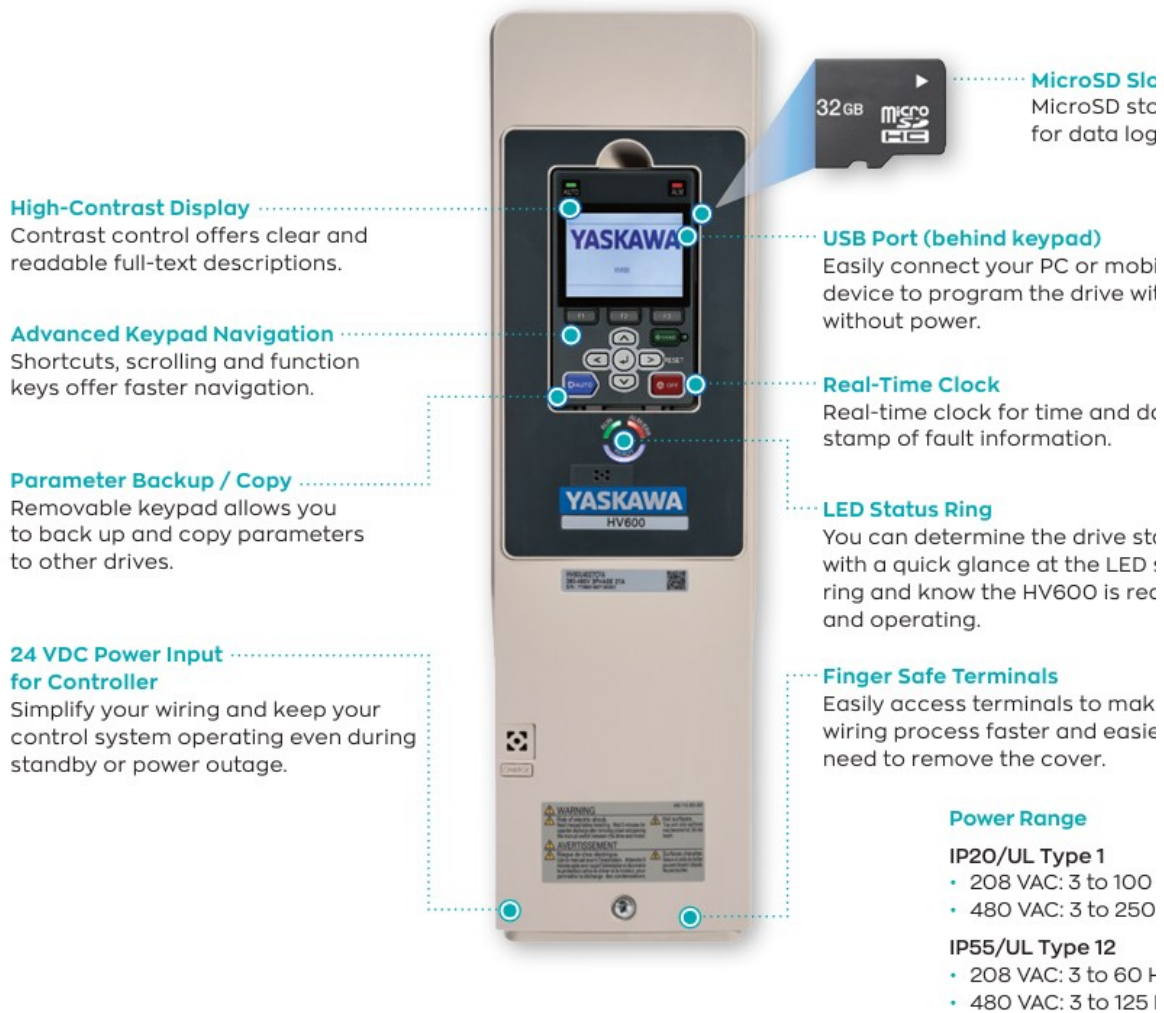
How Does a VFD Work?



Yaskawa Variable Frequency Drives (VFDs) give you precise control over fan speed and torque- right from startup through full operation. This not only protects your equipment but also ensures optimal performance and energy efficiency.

How does a VFD work?

A VFD regulates the frequency and voltage supplied to the motor. By converting incoming AC power to DC and then back to a modulated AC signal, the drive can ramp motor speed up or down to match system demands - reducing mechanical stress and avoiding abrupt surges in power.



Why does this matter?

- Smooth acceleration reduces wear on belts, bearings, and shafts
- Optimized airflow meets building load in real time
- Energy savings by eliminating full-speed starts when not needed
- Improved motor lifespan with less heat and stress

Whether you're managing a single fan or a complex fan array, Yaskawa VFDs put you in control.

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