

SINGLE-PHASE CONVERTER iQPIVOT™ POWER OPTION

CONTROL 3-PHASE PUMP MOTORS AND CENTER PIVOT
TOWER MOTORS WITH A SINGLE-PHASE POWER SOURCE

KEY SYSTEM BENEFITS

- ✓ Reduces stress on input utility transformers, utility pole fusing, and other control devices off the same power feed.
- ✓ Less than 10% total harmonic distortion for single-phase input, therefore being a good power neighbor to other farmers.
- ✓ Yaskawa is here whenever you need us with 24/7/365 technical support.



Hinged
Lockable
Keypad
Cover

UL Type 3R
Enclosure

RELIABLE, VERSATILE SINGLE-PHASE CONVERTER SOLUTION

Solid state efficient control without mechanical parts that wear out with rotary phase converters.

ACHIEVE LONG-TERM SYSTEM RELIABILITY AND PERFORMANCE

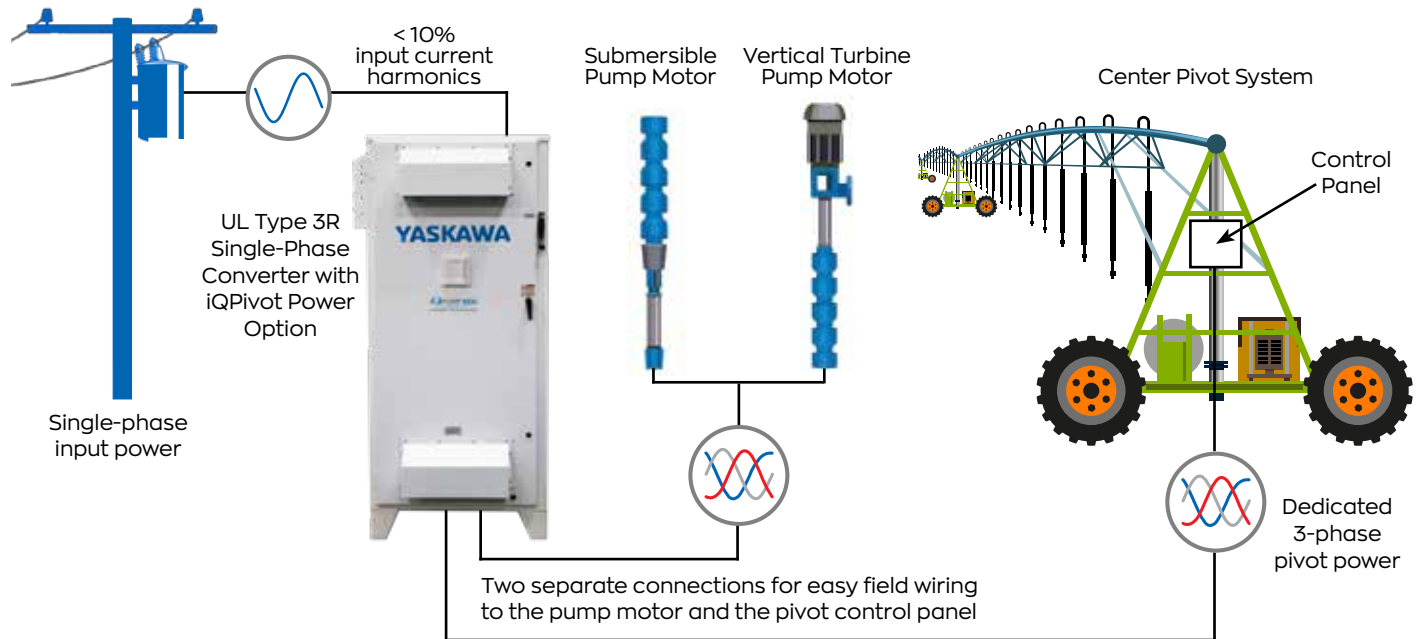
Yaskawa drives are widely accepted as **the standard for performance** in pumping and irrigation applications while also providing easy installation.

To continue helping customers, Yaskawa has designed a drop in solution that controls the 3-Phase pump motor and provides 3-Phase Power to the driven tower motors.

This Single Phase Converter package with our iQPivot™ power option provides full featured constant pressure pump control with an optional pivot power that independently powers the pivot motor and control station.

SINGLE-PHASE CONVERTER iQPivot™ POWER OPTION

The iQPivot power option is the ideal solution for irrigation pivots. This all-in-one solution uses single-phase input power to operate three-phase pump motors while also powering the entire center pivot system. Yaskawa has considered your needs for powering your control panel, pivot tower motors, and the end gun water pump.



SPECIFICATIONS

The iQPivot power option is available with 480 VAC input

Item	Specifications
Power Range	460 VAC: 30-100 HP
Input Voltage	460-480 VAC, Single-Phase

SIZING

The iQPivot power option is available in two ratings, 23 A and 38 A. Sizing is accomplished using the full load amps (FLA) of the tower motors, pivot control panel, and end gun pump.

iQPivot Power	Towers Without End Gun	Towers With End Gun
23 A	8-12	6-10
38 A	13-16	11-14

Note: These are estimates based on typical tower and end gun motor amps. Refer to the sizing guide.

AVAILABLE OPTIONS

Power Options

- Circuit Breaker (Standard AIC)
- Circuit Breaker (65k SCCR rated panel)
- Input Fuses
- Surge Suppressor (Strikesorb™)
- Space Heater
- 50°C ambient
- Motor Terminal Block

Control Options

- Hand/Off/Auto door mounted switch
- Speed Pot
- Start/Stop push buttons
- Run/Stop pilot light
- Fault pilot light

Communication Options

- Ethernet/IP
- DeviceNet
- PROFIBUS
- Modbus TCP/IP