

The **BIG AG PUMPS** are for titans of Agriculture. Like all of our other solar pumps, our **BIG AG PUMPS** have been **spec'd to align with every one of the different federal or local American agricultural agency programs, including NRCS**. Large irrigation systems with big water demands and pressure from high-volume Ag wells 6" and up. The same reliability and technology as our popular 5hp Pro Series is expanded up to 10 times with systems up to 50 Horsepower. 3-Phase 6" Motors and 6" Pump Ends allow for up to 350 GPM at pressure and up to 375' of head at that flow rate. All **BIG AG PUMPS** come pre-wired with breakers, surge protection, disconnect switches. Solar Arrays are sized with enough wattage to power your pump's motor for 6+ hours per day in USA's best solar states. With more runtime during growing seasons in states like TX, AZ, NM and CA. **Ask About New Financing Options.**

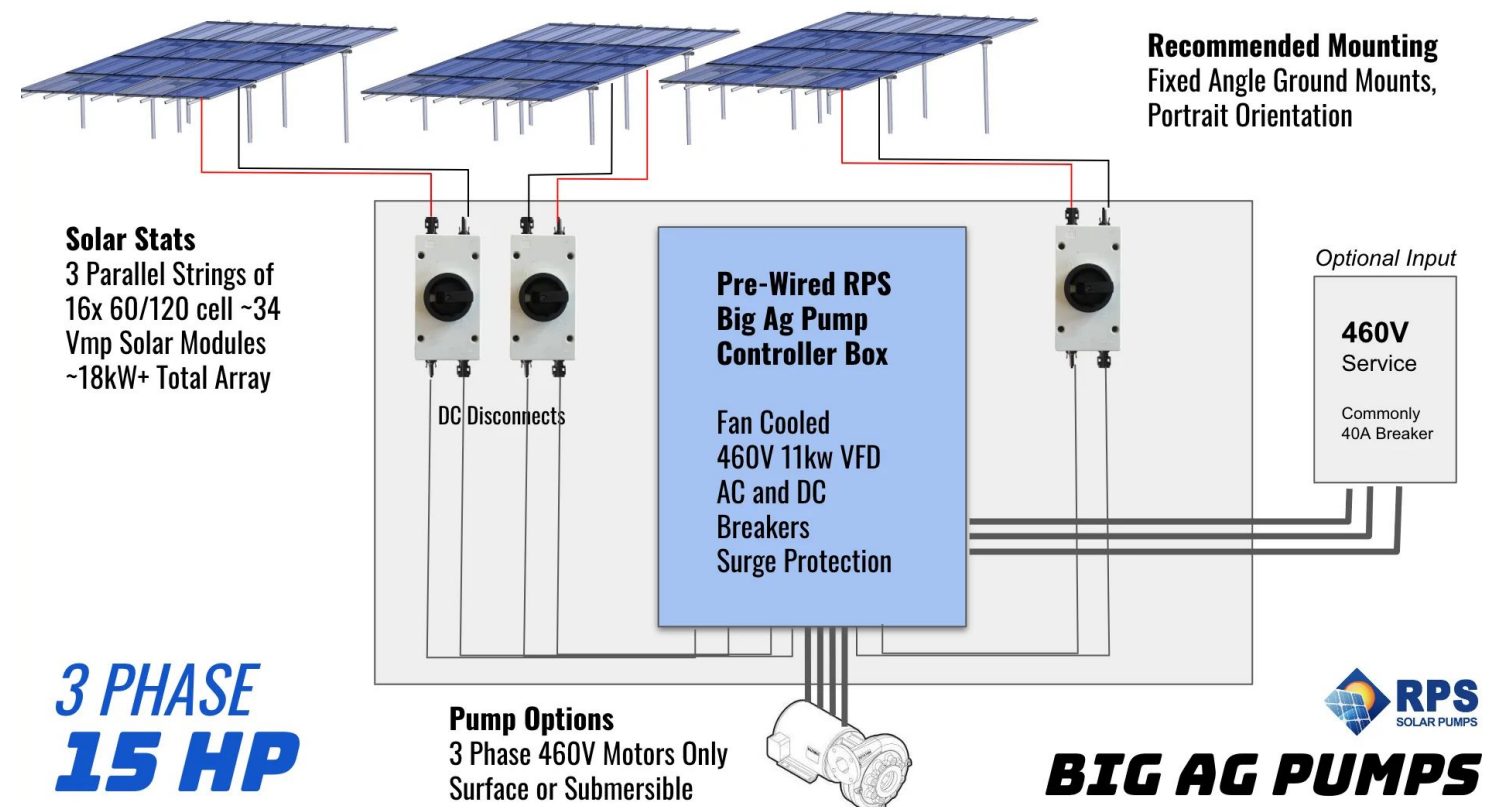
**Conversion of Existing 3 Phase Pumps** is also a great option if you have a previously installed or acquired Three Phase Pump in the 7.5HP to 50 HP range. **Larger than 50 HP is still possible, but please call our engineers to discuss.** We like to program these in advance of your installation so it's plug and play for you. We ask for the spec sheet of the motor you have on your pump so we can keep that on file as well or the model so we can download it from the web.

Our engineers help size each system according to the project needs, the options below are examples of what's possible. At the heart of the system is our **fan cooled, VFD, AC/DC switching RPS Big Ag Pump Controller Box**, seen right.

RPS has big Ag Pump systems currently deployed for SWEEPS grant recipients in California, vineyards operations and commercial farms.



Power Rating	Voltage	Solar Array	Outlet	GPM / TDH Range
7.5 HP	230V or 460V	10,000W - 12,000W	3"	250 GPM at 50'
15 HP	230V or 460V	18,000W	4"	350 GPM at 100'
25 HP	460V	30,000W	4"	350 GPM at 190'



## Conversion Kits - Power Your Existing Pump with Solar!

The **RPS 220V-to-Solar Conversion Kit** allows for the powering with solar any existing 220V **3-Wire Single Phase** motor OR **Three Phase** motor up to 5 HP. Works with both surface pumps and submersible pump as long as they are 220V AC. Controller handles automatic switching between solar and another 220V backup power source when the sun isn't shining, like a generator or grid power, using its built-in autoswitching feature. Not compatible with batteries directly, but can be powered by WaterSecure units or Solar Trailers. There is no other kit like this on the market! Jet pumps, Well pumps, Pool pumps, Irrigation pumps, Dewatering pumps etc...

### Identifying Compatible Motor Types

**3-Wire pumps** (compatible) have a ground also, so it will be 4 wires going down your well. You'll usually find a starting capacitor box above ground in between the motor and utility power) that will have 4 wires leaving towards the pump.

**3-Phase pumps** (compatible) have a ground also, so it will also be 4 wires going down your well. You'll usually find a VFD controller above ground in between the motor and utility power) that will have 4 wires leaving towards the pump. **Unsure? Send us a photo to confirm support@ruralsystems.com**

Power Rating	Kit	Solar Panels
0.5HP	1/2HP 220V-to-Solar Conversion Kit	12x 100W Panels
0.75HP	3/4HP 220V-to-Solar Conversion Kit	16x 100W Panels
1HP	1HP 220V-to-Solar Conversion Kit	6x 370W+ Pro Panels
1.5HP	1-1/2HP 220V-to-Solar Conversion Kit	8x 370W+ Pro Panels
2HP	2HP 220V-to-Solar Conversion Kit	10x 370W+ Pro Panels
3HP	3HP 220V-to-Solar Conversion Kit	14x 370W+ Pro Panels
5HP	5HP 3 Phase Only 220V-to-Solar Conversion Kit	20x 370W+ Pro Panels



### The RPS Pro Conversion Kit contains:

- Rugged Aluminum Framed Mono-Crystalline Solar Panels
- RPS Solar Controller Rated and programmed for your system
- Built in Low Water sensing built into the Smart Controller, no sensor needed!
- Integrated AC Auto-Switching to supplement solar with 220v Grid or Generator if desired
- DC cut-off disconnect switch rated for your array, plug and play with MC4s
- Large Float Switch for use as high water tank sensor
- Solar Panel cable connectors
- Waterproof heatshrink wire splice kit with pre-crimped pump wires
- Detailed full-color solar pump guide for step-by-step planning & install
- Access to RPS video archives of installation tips & product walkthroughs
- 30 Day Money-Back & 100% Water Assurance Guarantee
- 2 Year Comprehensive Warranty
- Phone / Email / Text Support from Friendly USA based RPS Engineers

### Have a non-compatible 2-Wire Pump?

There are still options! Pumps that connect directly to a breaker and have only 2 wires plus ground wire can still be powered by WaterSecure units or a Solar Trailer. Many customers also choose to convert this older technology over to a more modern system with a full RPS Pro Series kit with solar panels, controller and pump/motor combination!