PENTAIR
PENTEK*

# SOLAR DRIVE PSD25PB
POWER BLENDER

Pentair Pentek Solar Drive Power Blender PSD25PB boasts capabilities to seamlessly blend operational energy between solar arrays and power grids. The drive's adaptive firmware paired with our reliable Pentair Pentek 4" AC motors creates a one-of-a-kind versatility for pumping applications. Run any qualified Pentair 4" submersible pump when sunlight is available and benefit from dependable grid power during nighttime or low solar conditions to support your critical 24/7 pumping operations.


## FEATURES

- **Retrofit existing systems** with one-of-a-kind 4" AC pump and motor combo offering
- **Efficient** use of solar panels and simple installation
- **Cost savings** with a Pentair traditional 4" AC pump versus competitors DC pump
- **Buy only what you need** with this configurable system
- **Maintains** full Variable Frequency Drive (VFD) operations while blending inputs

## GENERAL APPLICATIONS

- **24/7 water operations**
- **Residential irrigation**
- **Power grid supplement**

DESIGN & ASSEMBLY IN THE USA

# TECHNICAL SPECIFICATIONS

| Electrical | | Mechanical | |
|---|---|---|---|
| AC input voltage range: | **120-240Vac single phase** | Degree of protection: | **NEMA3R/IP65** |
| AC input maximum current: | **12Aac** | Enclosure material: | **Cast Aluminum** |
| Solar PV operating voltage range: | **100-400Vdc** | Operating temperature: | **-40˚C to 50˚C** |
| Solar PV operating current: | **9Adc** | Dimensions: | **18"x10"x5"** |
| Single-phase max AC motor power: | **10A/1.5HP** | Power terminal: | **AWG#10-14** |
| Three-phase max AC motor power: | **8A/2HP** | Control/Sensor terminal: | **AWG#14-22** |

# MODES OF OPERATION

## Timed Grid Mode

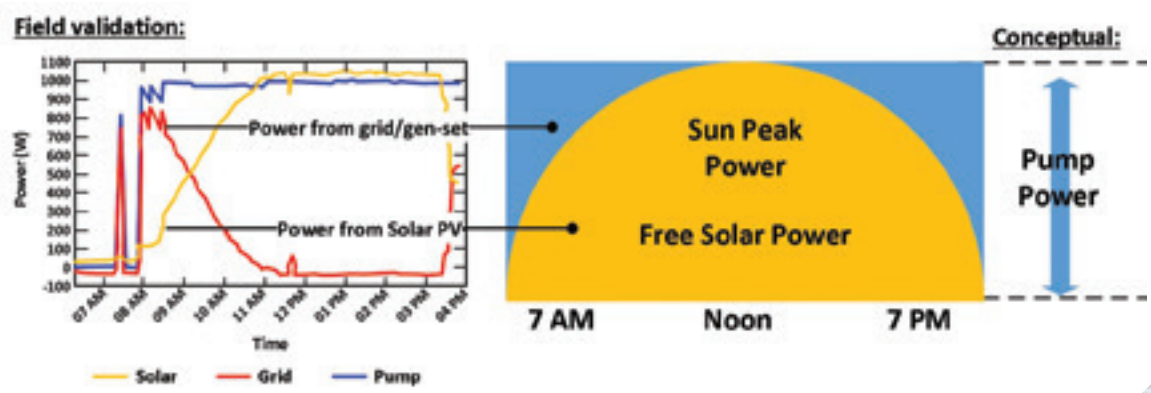
Sometimes it is only necessary to run a device for certain times at night. This mode provides complete flexibility in scheduling the use of grid power.

## Solar Only Mode

By activating the switch to manually override the use of the power grid, you can easily put the system into a mode where it will not draw power from the grid. This is typically used to optimize the cost of operation based on different seasonal needs.

## Blended Mode

The system utilizes as much power as available from the solar array at any instant, supplementing as needed from the power grid as clouds come over or day fades to night.



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