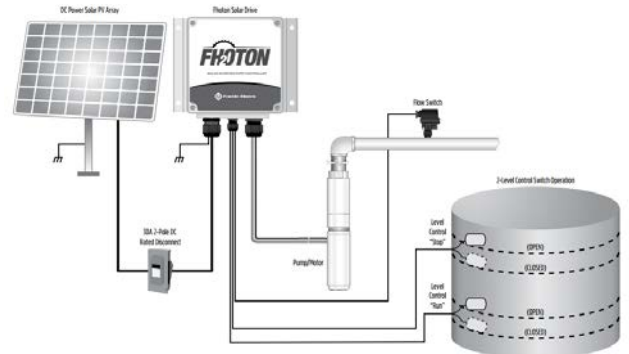


900-2500+W Solar / Top-of-Pole Mount / MidNite Combiner Box

Solar Water Pump Diagram

SunWize Franklin Electric series Water Pumping Kits (WPK-FE) are complete solar kit packages that contain everything needed to run either SubDrive or Photon series SolarPak submersible pump systems from Franklin Electric. Both SunWize WPK-FE and Franklin Electric SolarPak systems are designed for high performance in remote and harsh environments. Our FE Series Photon WPK solar kits are sized according to Franklin Electric 0.75HP and 1.5 HP motor sizes and will produce approximately **150 to 24,000 gallons per day** depending on pump model, Total Dynamic Head (TDH), WPK selected, and solar resources at the pumping location.



SolarPaks feature 4" submersible motor, pump, & Controller

SunWize WPK-FE series solar kits use high quality 72-cell solar modules and durable Solar Rackworks top-of-pole mounts, rated for 90 mph wind speeds. Each WPK kit contains solar modules, rack and 30 ft. of MC4 cable for connecting the solar module to controller. Solar modules are 300-375W in size. All sizing calculations assume 315W module option.

SUNWIZE WPK-FE SERIES KEY FEATURES:

- Includes Everything Necessary to run SubDrive and Photon Series SolarPak Systems, up to 24k gallons/day
- High Quality 72-Cell Solar Modules w/ Aluminum Frame and MC4 Output Cables between 300W-375W
- Solar Rackworks Top-of-Pole Mounts - 90 MPH wind ratings, powder coated gimbals, 6061-T6 aluminum rails, & 0-60 deg. tilt angle, 130MPH version available

SOLARKPAK KEY FEATURES:

- IP65 & NEMA3 Drive Enclosure for Outdoor Use
- Photon offers affordable solar pumping option
- Optional data communication onboard
- MPPT technology to maximize efficiency and power of the solar system
- Simple installation with no maintenance
- UL Approved

Technical Specifications

System Model	Module Options	Module Qty	Rack	Balance of Systems (all WPK)
270131- WPK-FE-945W	Solar Module availability is subject to change. Kits use premium 72-cell solar modules between 300W-375W. Module rating will not significantly affect estimated flow rates	3	TPR3-T21 (4")	1. 30 ft. MC4 Output Cable 2. MidNite MNPV 3P Outdoor Combiner Box MidNite 3. MNEPV 300VDC Din Rail Circuit Breaker
270132- WPK-FE-1260W		4	TPR4-T21 (6")	
270133- WPK-FE-1575W		5	TPR6-T21 (6")	
270134- WPK-FE-1890W		6	TPR6-T21 (6")	
270135- WPK-FE-2520W		8	TPR8-T21 (8")	

Solar Rackworks Top-of-Pole Mounts Fit 2" to 8" Sch. 40 Diameter Pipe depending on model, shown in ()



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SunWize WPK-FE Lookup Table / 0-600 Ft. Total Dynamic Head (TDH)

 		SunWize Water Pumping Kits - Franklin Electric				
		(GPD) - Winter (1.5 Sun Hours) / Summer (5.5 Sun Hours)				
		WPK FE-945	WPK FE-1260	WPK FE-1575	WPK FE-1890	WPK FE-2520
Water Pump Model	TDH Feet					
019444 - Pump, 15FDSP-.75HP Photon SolarPak 15GPM, 0.75 HP	30	1,290 / 4,700	1,780 / 6,500			
019448 - Pump, 45FDSP-1.5HP Photon SolarPak 45GPM, 1.5 HP	30			3,480 / 12,700	4,050 / 14,800	
019449 - Pump, 90FDSP-1.5HP Photon SolarPak 90GPM, 1.5 HP	30			4,450 / 16,300	5,670 / 20,700	6,640 / 24,300
019439 - Pump, 5FDSP-.75HP Photon SolarPak 5GPM, 0.75 HP	60	520 / 1,900	720 / 2,600			
019441 - Pump, 7FDSP-.75HP Photon SolarPak 7GPM, 0.75 HP	60	720 / 2,600	1,050 / 3,800			
019446 - Pump, 25FDSP-1.5HP Photon SolarPak 25GPM, 1.5 HP	60			2,100 / 7,700	2,430 / 8,900	
019447 - Pump, 35FDSP-1.5HP Photon SolarPak 35GPM, 1.5 HP	60			2,510 / 9,200	2,990 / 10,900	3,400 / 12,400
019442 - Pump, 10FDSP-.75HP Photon SolarPak 10GPM, 0.75 HP	100	680 / 2,500	1,130 / 4,100			
019444 - Pump, 15FDSP-.75HP Photon SolarPak 15GPM, 0.75 HP	100	810 / 2,900	1,450 / 5,300			
019446 - Pump, 25FDSP-1.5HP Photon SolarPak 25GPM, 1.5 HP	100			1,860 / 6,800	2,180 / 8,000	2,510 / 9,200
019447 - Pump, 35FDSP-1.5HP Photon SolarPak 35GPM, 1.5 HP	100			2,020 / 7,400	2,590 / 9,500	2,990 / 10,900
019448 - Pump, 45FDSP-1.5HP Photon SolarPak 45GPM, 1.5 HP	100			1,210 / 4,400	2,180 / 8,000	2,990 / 10,900
019439 - Pump, 5FDSP-.75HP Photon SolarPak 5GPM, 0.75 HP	130	440 / 1,600	640 / 2,300			
019441 - Pump, 7FDSP-.75HP Photon SolarPak 7GPM, 0.75 HP	130	600 / 2,200	930 / 3,400			
019444 - Pump, 15FDSP-.75HP Photon SolarPak 15GPM, 0.75 HP	130	320 / 1,100	1,290 / 4,700			
019445 - Pump, 15FDSP-1.5HP Photon SolarPak 15GPM, 1.5 HP	130			1,130 / 4,100	1,290 / 4,700	1,450 / 5,300
019446 - Pump, 25FDSP-1.5HP Photon SolarPak 25GPM, 1.5 HP	130			1,530 / 5,600	1,940 / 7,100	2,260 / 8,300
019439 - Pump, 5FDSP-.75HP Photon SolarPak 5GPM, 0.75 HP	200	320 / 1,100	600 / 2,200			
019441 - Pump, 7FDSP-.75HP Photon SolarPak 7GPM, 0.75 HP	200	400 / 1,400	850 / 3,100			
019445 - Pump, 15FDSP-1.5HP Photon SolarPak 15GPM, 1.5 HP	200			890 / 3,200	1,130 / 4,100	1,290 / 4,700
019441 - Pump, 7FDSP-.75HP Photon SolarPak 7GPM, 0.75 HP	260		720 / 2,600			
019440 - Pump, 5FDSP-1.5HP Photon SolarPak 5GPM, 1.5 HP	260			400 / 1,400	480 / 1,700	640 / 2,300
019445 - Pump, 15FDSP-1.5HP Photon SolarPak 15GPM, 1.5 HP	260			640 / 2,300	970 / 3,500	1,130 / 4,100
019440 - Pump, 5FDSP-1.5HP Photon SolarPak 5GPM, 1.5 HP	330			320 / 1,100	440 / 1,600	600 / 2,200
019445 - Pump, 15FDSP-1.5HP Photon SolarPak 15GPM, 1.5 HP	330			320 / 1,100	720 / 2,600	970 / 3,500
019439 - Pump, 5FDSP-.75HP Photon SolarPak 5GPM, 0.75 HP	400		400 / 1,400			
019440 - Pump, 5FDSP-1.5HP Photon SolarPak 5GPM, 1.5 HP	400			240 / 800	360 / 1,300	560 / 2,000
019443 - Pump, 10FDSP-1.5HP Photon SolarPak 10GPM, 1.5 HP	400			120 / 400	480 / 1,700	640 / 2,300
019445 - Pump, 15FDSP-1.5HP Photon SolarPak 15GPM, 1.5 HP	400				400 / 1,400	810 / 2,900
019440 - Pump, 5FDSP-1.5HP Photon SolarPak 5GPM, 1.5 HP	460			160 / 500	320 / 1,100	440 / 1,600
019443 - Pump, 10FDSP-1.5HP Photon SolarPak 10GPM, 1.5 HP	460					560 / 2,000
019440 - Pump, 5FDSP-1.5HP Photon SolarPak 5GPM, 1.5 HP	590					440 / 1,600

Seasonal Calculations:

Use the Approximate Min-Max Sun-Zone Calculations Shown to Determine Water Pumping Production During Winter & Summer Seasonal Periods.

**Gallons/Day Scales Linearly With Sunlight (3.5 Sun Hour Rate is Avg. between 1.5 & 5.5 Sun Hour Rates shown)

The top number is average winter daily pump production in gallons per day, assuming solar resources of 1.5 sun hours per day.

The bottom number represents average summer daily pump production in gallons per day, assuming solar resources of 5.5 sun hours per day.

Lookup Instructions:

1. Determine System TDH Head ([click here](#))
2. Determine solar resources for site (use any solar resources database or map)
3. Use Next Lowest TDH Head Grouping in Table
4. Scale Min/Max Gallons/Day per Step 2**
5. Choose System w/ Sufficient Gallons Per Day

SubDrive Option with Backup AC Input Also Available

Complete Order System Instructions:

1. (1) SolarPak Pump - Solar Pump Column
2. (1) WPK-FE - SunWize System Column

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