

PHOTON™ 48V SOLARPAK (1/2 HP)

QUICK REFERENCE GUIDE

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Franklin Electric

The Photon™ SolarPAK is the system solution to your solar pumping requirements. By utilizing quality components, innovative thinking based on global market inputs, and a technical expertise in groundwater pumping, Franklin Electric has developed a rugged system which tackles the challenges of harsh and remote environments. No other system delivers the features, benefits, and reliability in just one package!

FEATURES

- “Off-the-shelf” 4” Franklin Electric pumps withstand sand better than any other pump
- Proven Franklin Electric submersible motors for long-term reliability
- Simple installation: Connect motor, DC power, flow switch (optional - not included)
- Photon™ Wi-Fi Module: Easily adjust min/max speeds or minimum off-time with FE Connect Photon mobile app to adapt pump to well conditions
- High-flow system for faster tank-fill and significant water output
- Type 4 enclosure minimizes impact from wildlife, insects, dust, and weather
- Maximum Power Point Tracking (MPPT) for maximizing efficiency of input power
- Soft-start feature prevents water hammer and increases system life
- Built-in diagnostics and protection

MODEL NOMENCLATURE

XXX FD SP - X.XHP

Motor Rating: 0.5, 0.75 or 1.5 hp

SolarPAK

Photon Drive

Pump Flow: 5, 7, 10, 15, 25, 35, 45 or 90 US gpm
(18, 25, 30, 45, 70, 100, 150 or 270 lpm)

FRANKLIN ELECTRIC 4" 1/2 HP SUBMERSIBLE PUMP
(PUMP FLOW RATES AVAILABLE: 5, 7, 15 & 20 GPM)



PHOTON™ SOLAR CONTROLLER



FRANKLIN ELECTRIC 4" 1/2 HP
SUBMERSIBLE MOTOR (48V, 3PH)

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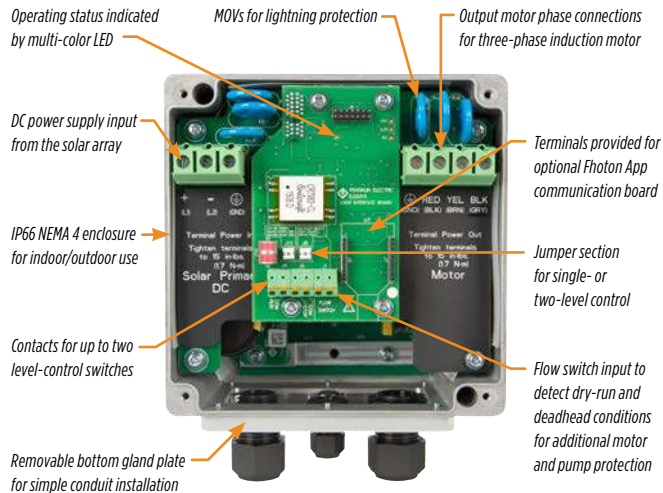
SPECIFICATIONS

Controller Model No.		581011100984-SPO50HP
Output	Max. Output Voltage	48 V AC, 3-phase
	Max. Amps (RMS)	9.8 A, each phase
	Output Frequency	20-60 Hz
	Efficiency at Max Power	-98%
PV Source	Input Voltage	40* - 110** V DC
	Max. Amps Input	7.2 A DC, continuous
	Power at MPP	Up to 0.38 kW
For Use with Franklin Electric Motor		2349049204G
Controller Size - L x W x D		6.28" x 6.28" x 7.32" (159.5 mm x 159.5 mm x 185.9 mm)
Controller Weight		10 lbs (4.5 kg)
Operating Conditions	Temperature Range	-13 °F to 122 °F / -25 °C to 50 °C
	Relative Humidity Range	0 to 100% Condensing
	Enclosure Rating	Type 4

BUILT-IN DIAGNOSTICS & PROTECTION

- Surge Protection
- Locked Pump
- Overheated Controller
- Underload/Dry Run
- Open/Short Circuit
- Reverse Polarity
- Overvoltage

DRIVE COMPONENTS



FE SELECT

DESIGN | SIZE | QUOTE

VISIT FRANKLIN.CONFIG.INTELLIQUIP.COM FOR OPTIONS, ACCESSORIES, AND MORE SOLAR-POWERED SYSTEMS FROM 3/4 TO 10 HP.

GENERAL PERFORMANCE

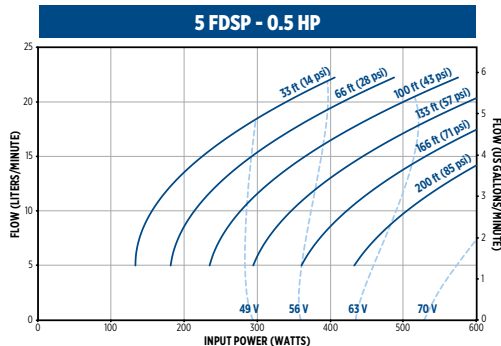
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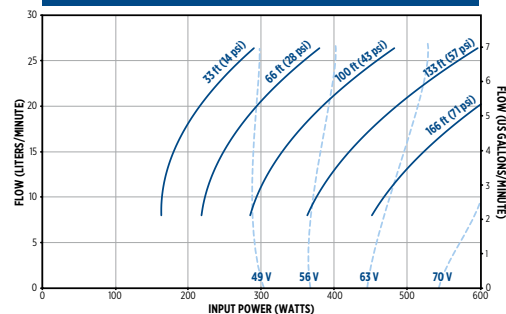
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5 FDSP - 0.5 HP

Photon™	1/2 hp
Pump End	3200 Series 5 gpm (18 lpm)
Motor	1/2 hp

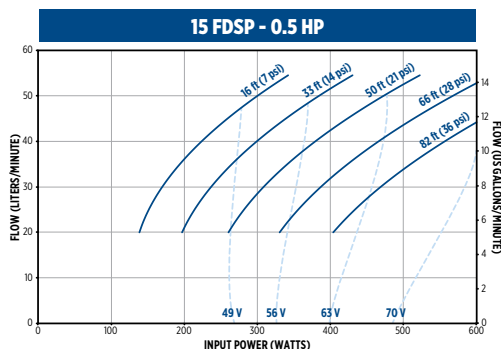


7 FDSP - 0.5 HP



15 FDSP - 0.5 HP

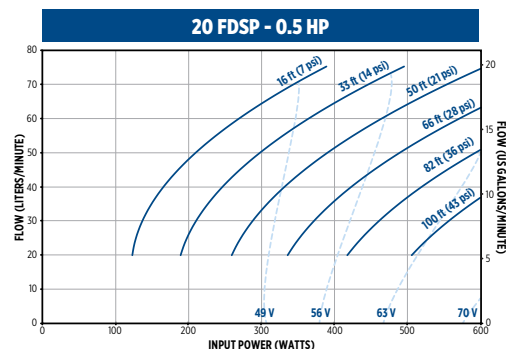
Photon™	1/2 hp
Pump End	Tri-Seal 15 gpm (45 lpm)
Motor	1/2 hp



20 FDSP - 0.5 HP

20 FDSP - 0.5 HP

Photon™	1/2 hp
Pump End	Tri-Seal 20 gpm (60 lpm)
Motor	1/2 hp





PHOTON

MAKE THE **BRIGHT** CHOICE

Complete Solar Pumping Systems

Franklin Electric's solar product line ranges from cost-effective systems operating on only two solar panels through large-scale watering systems using thousands of gallons per day. These various options provide you with everything you need – panels, pump, motor, and drive—from the people who know groundwater best. And, we back it up with Field Service Engineers willing to help you every step of the way.

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