January, 2017 News No. 01/2017

FHOTON SolarPAK

Franklin Electric Europe is pleased to announce the launch of the new FHOTON SolarPAK. The complete package, consisting of FHOTON controller, solar motor, 4" centrifugal pump and flow switch offers a unique, compact and smart high-output system solution, to meet your solar water pumping requirements. The FHOTON controller unit itself converts PV panel's DC power to AC and is able to drive a wide range of submersible and surface motor types. The user friendly plug and play system of the FHOTON Controller, brings additional installation flexibility and allows an easy commissioning. Due to its latest hardware technology, intelligent software design and reliability the FHOTON SolarPAK enable the end user to get more water with less sunlight needed.

Features

- High-flow system with significant water output
- Optimized for use in borehole pumping systems
- Fhoton controller with compact and robust IP66 enclosure for harsh environments
- Plug and play system
- Built-in diagnostics and protection
- Advanced motor control algorithm and soft-start feature increasing system life
- Proven components for long-term reliability
- No required maintenance (modular design w/o wiring)
- CE, cULus and UL approved

FHOTON Controller Specifications

	0.55 kW Model	1.1 kW Model
Controller Model No.	58101300086C-62ISO00	58101420086C-62ISO02
Output		
Max. Output Voltage	100V AC, 3-phase	200V AC, 3-phase
Max. Amps (RMS)	8.6 A, each phase	6.8 A, each phase
Output Frequency	30-60 Hz	
Efficiency at Max Power	98%	
Input		
Input Voltage VOC	300 V	420 V
Max. Amps Input	7.2 A DC, continuous	6.2 A DC, continuous

FHOTON SolarPAK ordering information

SolarPAK EU MDL		Fhoton Solar Controller		Solar Pump (BSPP)				Motor		Flow Switch (NPT)	
SolarPAK EU MDL	Model No.	Model	Part No.	m^3/h	Stages	Pump	Part No.	kW	Part No.	Model	Part No.
FDSP 0.55 kW (without Pump)	308 752 670	FD Solar 0.55 kW N4	581 013 000 86C-62IS000	-	-	-	-	0.75	234 802 6700L	-	-
FDSP 1.10 kW (without Pump)	308 754 670	FD Solar 1.10 kW N4	581 014 200 86C-62IS002	-	-	-	-	1.1	234 703 6700L	-	-
119-FDSP 0.55 kW	308 752 671	FD Solar 0.55 kW N4	581 013 000 86C-62IS000	1	19	VS 1/19	710 101 90	0.75	234 802 6700L	C25	226 014 101
126-FDSP 1.10 kW	308 754 671	FD Solar 1.10 kW N4	581 014 200 86C-62IS002	1	26	VS 1/26	710 102 60	1.1	234 703 6700L	C25	226 014 101
210-FDSP 0.55 kW	308 752 672	FD Solar 0.55 kW N4	581 013 000 86C-62IS000	2	10	VS 2/10	710 201 00	0.75	234 802 6700L	C25	226 014 101
220-FDSP 1.10 kW	308 754 672	FD Solar 1.10 kW N4	581 014 200 86C-62IS002	2	20	VS 2/20	710 202 00	1.1	234 703 6700L	C25	226 014 101
407-FDSP 0.55 kW	308 752 674	FD Solar 0.55 kW N4	581 013 000 86C-62IS000	4	7	VS 4/07	710 400 70	0.75	234 802 6700L	F21	226 019 101
414-FDSP 1.10 kW	308 754 674	FD Solar 1.10 kW N4	581 014 200 86C-62IS002	4	14	VS 4/14	710 401 40	1.1	234 703 6700L	F21	226 019 101
609-FDSP 1.10 kW	308 754 676	FD Solar 1.10 kW N4	581 014 200 86C-62IS002	6	9	VS 6/09	710 600 90	1.1	234 703 6700L	F21	226 019 101
711-FDSP 1.10 kW	308 754 677	FD Solar 1.10 kW N4	581 014 200 86C-62IS002	7	11	VS 7/11	710 701 10	1.1	234 703 6700L	F21	226 019 101

System Options

- Level switch – tank level control
- DC-Disconnect – solar array / electronics separation
- SolarPAK without pump and flow switch available

Service / Support

- Easy commissioning by plug and play system
- Solar Selector Software
- Spare part kits for electronic controller and motor

Availability

- Pre-set systems with two weeks leadtime
- Special systems on request

Coming soon

- Power extension up to 7.5kW
- AC input box
- Helical rotor (PD) pumps
- Communication (Wifi, FE Connect APP)

Please do not hesitate to contact your Franklin Electric Area Sales Manager or Field Service Engineer should you need additional information.

Steven Wittrock
Product Management