

October 28, 2015

6" High Efficiency Solar System

Franklin Electric is pleased to announce the introduction of the extended SOLAR feature for its 6" High Efficiency Submersible Borehole systems (HES). These systems, consisting of a full stainless, synchronous submersible NEMA motor associated with a variable frequency drive and matching output filter have proven their world-class efficiency in over 300 applications to date, saving up to 20% of electrical energy when compared to standard asynchronous motor systems.

Features:

- One-stop shop - perfectly matching components guarantee first class performance/ efficiency
 - ⇒ *Less panels, more water respectively*
- Direct DC feeding
- Special MPP algorithm for centrifugal borehole pumps
- Top class protection with Electronics in IP66/54
 - ⇒ *No cabinet - no cooling fan/ dust filter - no maintenance*
- GORE® vent
 - ⇒ *No condensation*
- Easy set-up due to tailored pre-setting, user interface and Franklin Electric software
- Reduced amps
 - ⇒ *Smaller drop lead cross size*
- Higher power density
 - ⇒ *Lightweight*
- Significant lower motor heat rise
 - ⇒ *Increased lifetime*
- Communication Modbus (RS485 and Ethernet)

System Technical Specification:

- Rating: 4-30kW
- Power Supply: Voltage 400 - 800V DC (minimum starting voltage 440V)
Frequency 30 - f_N (50, respectively 60Hz)



Model Numbers:

400V/50Hz Solar System (304SS motor, IP66 - VFD, IP54 - output filter & flow switch)		
P _N [kW]	dv/dt filter	sinus filter
4 - 7,5	308 010 216S	308 010 316S
9,3 -11	308 014 223S	308 014 323S
13 -18,5	308 014 238S	308 014 338S
22 - 30	308 016 261S	308 016 361S

System Options:

- VFD Plug-in cards: 6x DI/DO; PT100; Profibus; 1x AI & 2x AO
- Other voltages
- PT100 protection
- Motors in 316SS and 904L
- Level Switch – tank level control
- DC- Disconnect – solar array-electronics separation

Service/ Support:

- Easy commissioning due to Franklin engineered VFD software and Quick Installation Guide.
- Standard Rewindable spare parts, except stator, rotor and 37kW radial bearings.
- Selection Software available soon.

Availability:

400V/50Hz systems (304SS motor, drive and dv/dt filter) are available ex stock.

Special systems (alternative voltage, motor material, sinus filter...) with 6 weeks lead time.

For more detailed information contact your Area Sales Manager, go to our website franklin-electric.eu or visit us at



in Dubai, booth 2 D 81.

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