



# Sunnytek Solar Sweden

30 KW Horizontal Francis turbine 30 meter water head Page 1/1 31 October 2017

Sunnytek & partners offers a hydro power turbine based on Horizontal Francis principle with 30 KW output at 30 meters water head. This is an efficient design with moderate costs and short pay off.

Francis dual turbines are here the best solution and gives good performance and also it can adapt for variations ins water flow in a good way.

The system is normally delivered as a complete kit with generator + turbine and a governor system.

Control unit is included for automatic remote control of the power station.



## Technical specifications and data

- **Turbine model:** STHL110-WJ-30
- Horizontal Francis turbine
- Output: 30KW
- Water head: 30m
- Discharge: 0.139m<sup>3</sup>/s
- Runner diameter: 30cm
- Speed: 1000 r/min
- Runner material: stainless steel
- Bearing with water cooling circulation system
- **Generator model:** STW30-6/368
- Brushless Synchronous Generator
- Capacity: 30KW
- Voltage: 400V, 50HZ
- Rated current: 72 A
- Speed: 1000 r/min
- Power factor: 0.8

## Speed control and valves

- Model: DN300(manual model)
- Inlet Valve diameter: 300mm
- Pressure pipe diameter: 300mm
- Manual-electric governor

## Control panel

- On –grid running control system
- Brake protect function
- Current overvoltage and frequency protect function
- Excitation control

## Optional

\* MPPT inverter with electronic connection to external grid. This can compensate for large deviations in speed and power in best ways.



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