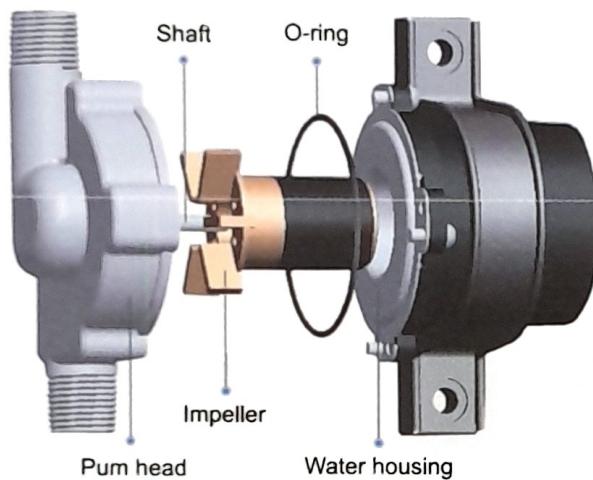


# TD5/PV SOLAR

## Areas of Use

- Solar water heating system
- Hot water circulation
- Radiant floor heating
- Heat transfer application
- Cooling system
- Food-grade liquid transfer



## Features

- Economical and powerful, high efficiency
- Compact design, easy installation
- No plumb exudation, much safer
- Can sustain continual heavy duty work
- Low or no maintenance
- Quiet operation
- DC power supply or battery powered
- Big flow rate 25LPM @ 25W DC
- Over voltage protection
- Over current protection
- Blocked protection
- Polarity protection

## Motor

DC brushless motor with high energy efficiency MPPT technology use by micro processor, variable speed and power consumption optional by dial control. Stable and advanced soft-starting function, very low inrush current, perfect for working directly with PV panel.

## Construction

Wetted parts are food-grade approved, with stainless steel pump head and water housing for superior reliability and corrosion resistance.

Wetted Parts	Materials
Pump Head	Stainless steel
Water Housing	Stainless steel
Shaft	Stainless steel
Impeller	PPE
O-Ring	EPDM
Magnetic	Injection ferrite

## Specifications:

Voltage: 17V DC  
Max Flow Rate: 25L/Min  
Max Water Head: 4M  
Pump Head: Stainless Steel  
Max system pressure: 10Bar (145Psi)  
Max working temperature: 110°C (230°F)  
Low noise: ≤ 50dB(A) far from 1m distance



# TD5/PV SOLAR

## PV Operated

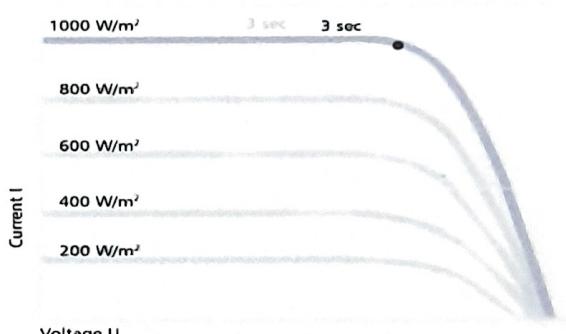
For solar system loops, the TD5 pump can be powered directly by a PV panel. When the sun comes up, heat builds up in the solar hot water panel and at the same time electricity is made generated by the PV panel. The pump slowly starts with the smallest amount of current and pushes the heated water to the storage tank. It's all too simple and eliminates all controllers, thermostats and sensors.

## Soft Start-Up

The TD5 solar DC pump has a soft start-up feature which reduces high inrush current. When the photovoltaic panel provides sufficient power, the pump goes through the alignment phase by turning the rotor into the position required for start-up. The processor then waits until the capacitor is sufficiently charged. This enables a start-up with minimal power (less than two watt). Cycling due to unsuccessful attempts is minimized. Even after prolonged shutdown, the pump will start reliably.

## Maximum Power Point (MPPT) tracking

Every three seconds the processor will modify its operating point on the voltage-current curve of the PV panel to find the point of maximum performance. At this point, the pump achieves the maximum RPM and therefore the maximum performance. There is no need for a separate performance device. The eco solar pump will always find its best operating point under any given light and temperature conditions. By employing MPPT tracking every three seconds, the TD5 pumps always automatically achieve maximum performance at any given insolation.



## Safe Pump to Our Health

TOPSFLO with the highest standard to produce the best pump dedicate to our customers, the TD5 pump is currently the world's only all stainless steel solar hot water circulating pump, made of food grade stainless steel, very safe and reliable, always protect your family's health, food grade stainless steel is healthy and safe metal to our people, acid resistant, no dangerous element exudation, the traditional copper-lead brass products more or less contain a certain percentage of lead, which the high lead content would adversely affect our physical health, the body absorbs lead will dissolve blood, hinder synthesize blood, leading to anemia, cause damage to central nervous system and other organs, especially the most serious hazards to children.

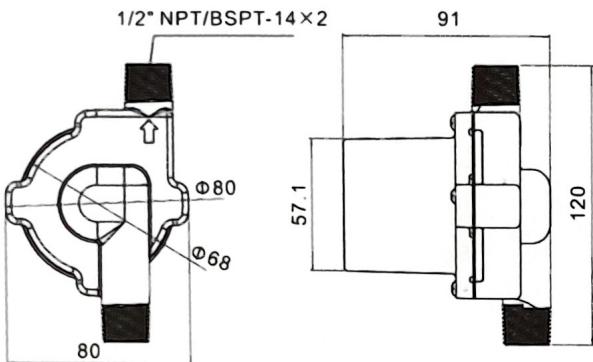
## Specification

Product Code	Max Flow Rate (L/Min)	Rated Voltage (VDC)	Current (A)	Max Water Head (M)	Power (W)
TD5/PV-A17-2504	25	17	1.4	4	25

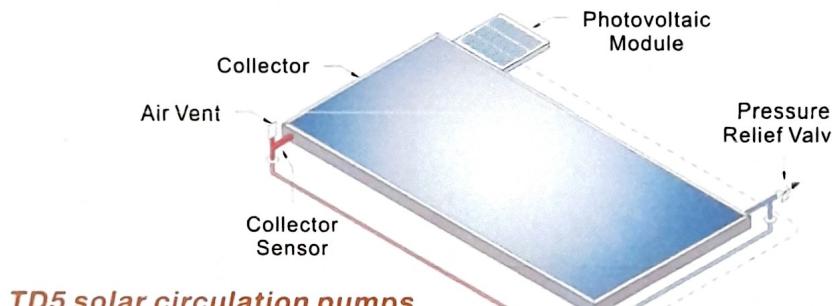
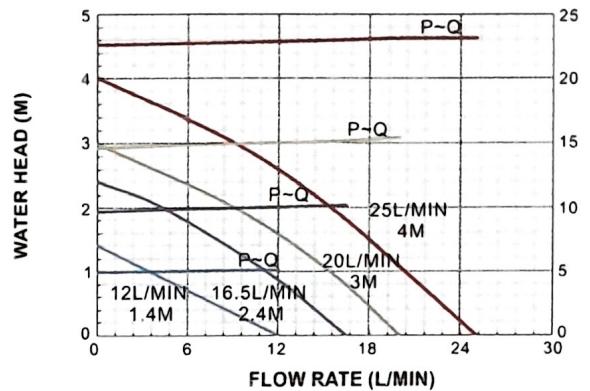
# TD5/PV SOLAR

## Curve & Dimension

### DRAWING(mm)



### TD5 PERFORMANCE



*TD5 solar circulation pumps  
for solar water systems!*

