

## Data Sheet For Solar DC Submersible Pumps set

Model	Description
EJ005H010	Solar Submersible DC Pumps, Model : EJ005H010,
	Rated Head: 10 mtr., 0.5 HP, Shut off head 28mtr.
EJ005H020	Solar Submersible DC Pumps, Model : EJ005H020,
	Rated Head: 20 mtr., 0.5 HP, Shut off head 36mtr.
EJ005H030	Solar Submersible DC Pumps, Model : EJ005H030,
	Rated Head: 30 mtr., 0.5 HP, Shut off head 40mtr.

Model	EJ005H010	EJ005H020	EJ005H030	
Rated head (mtr.)	10	20	30	Motor : Permanent Magnet D.C Motor
Discharge (M <sup>3</sup> /Day)	38	15	3.6	
Shut Off head (mtr.)	28	36	40	
Array Rating	500 Wp	500 Wp	500 Wp	
Input Voltage (Vmp.)	≥ 60 V	≥ 60 V	≥ 60 V	Water output figures are on a clear sunny day with 3 times tracking of SPV panel when solar radiation on horizontal surface is 7.15 KW/sq.m/day (i.e. coplanar with PV module)
Input Max. Current	8.5 Adc	8.5 Adc	8.5 Adc	
Ambient Temperature Range	Up to 50° C	Up to 50° C	Up to 50° C	
MNRE test certificate reference (Report no.)	-	-	-	

### Product Introduction

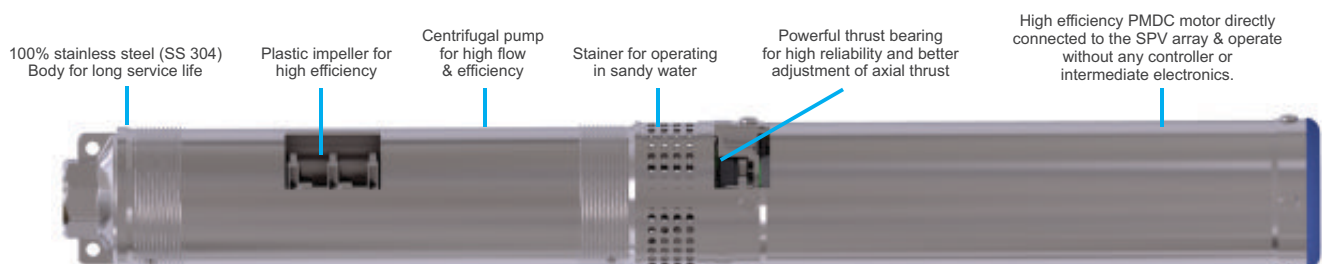
Rotosol's PMDC Solar submersible pumps are designed for micro pumping application. The pump can be directly connected to the SPV array without the need for any controller or intermediate electronics. Use of high efficiency Permanent Magnet DC motor makes these pumps extremely efficient, reliable and simple to operate.



### Application

- Drinking water supply
- Livestock watering
- Village water supply
- Irrigation

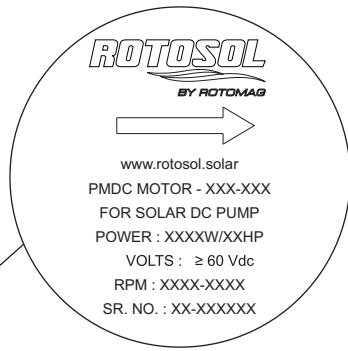
### Features and benefits



## Specifications of EJ-05 PMDC Submersible Motor



Marking on Motor

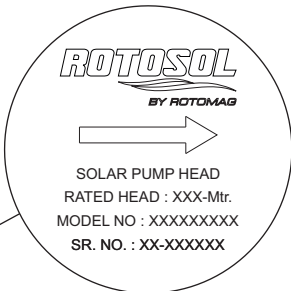


PMDC motor model	EJ-05
Power	0.5HP/375W
Rated Vdc	≥ 60 V
RPM	1800-3300

## Specifications of EJ005H010, EJ005H020 & EJ005H030 Pump Head

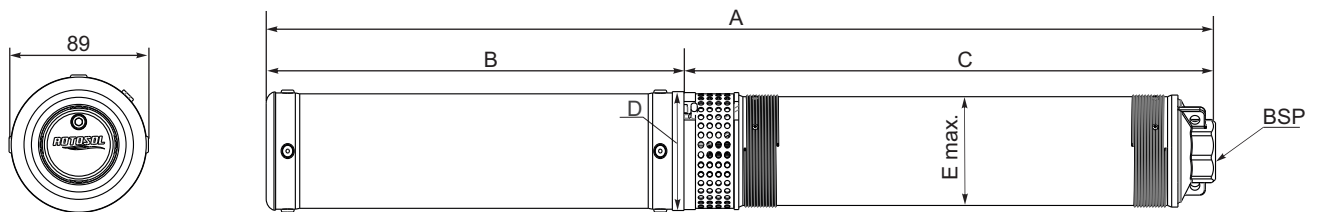


Marking on Pump Head



Model	Rated head
EJ005H010	10 Mtr.
EJ005H020	20 Mtr.
EJ005H030	30 Mtr.

### Dimension of DC solar pump head:

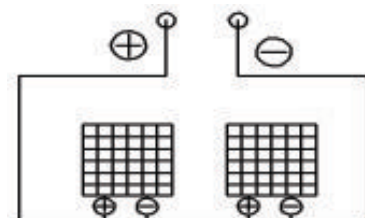


Model No.	Dimensional Details						Module Details		Performance Curves No.
	A	B	C	D	E	BSP	Module Size	No. of Module	
EJ005H010	793	381	412	95.5	89	1 1/2"	250 Wp	2	-
EJ005H020	794	381	413	95.5	89	1 1/4"	250 Wp	2	-
EJ005H030	1001	381	620	95.5	89	1 1/4"	250 Wp	2	-

### Preferred Solar PV Array

250 Wp, 60 Cell X 2 Panels

Wattage Wp	500 W
Voltage at maximum power Vmax	30.8 V
Open circuit voltage Voc	37.0 V
Current at maximum power Imax	8.14 A
Short circuit current Isc	8.63 A



2 Series - 500 Wp