

Data Sheet For Solar DC Pool Pumps

Model	Description					
RSP-24	Solar DC SS Surface Pumps, Model : RSP-24, Rated Head:06 Mtr., 0.5 HP, Shut off head 10 Mtr.					
RSP-30	Solar DC SS Surface Pumps, Model : RSP-30, Rated Head:06 Mtr., 1.0 HP, Shut off head 13 Mtr.					
RSP-60	Solar DC SS Surface Pumps, Model : RSP-60, Rated Head:10 Mtr., 2.0 HP, Shut off head 16 Mtr.					
Model	RSP-24	RSP-30	RSP-60			
Rated head (mtr.)	06	06	10	Motor : Permanent Magnet		
Discharge (M³/Hr.)	11.7	12.4	17.6	D.C Motor		
Shut Off head (mtr.)	10	13	16	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/da (i.e. coplanar with PV module)		
Array Rating	450 Wp	900 Wp	1800 Wp			
Input Voltage (Vmp.)	> 30 V	> 30 V	> 60 V			
Input Max. Current	12 Adc	25 /	Adc	Stander Test Condition : AM=1.5,		
Ambient Temperature Range		Up to 50° C		E=1000W/m ² ,Cell Temperature : 25°C		

Product Introduction

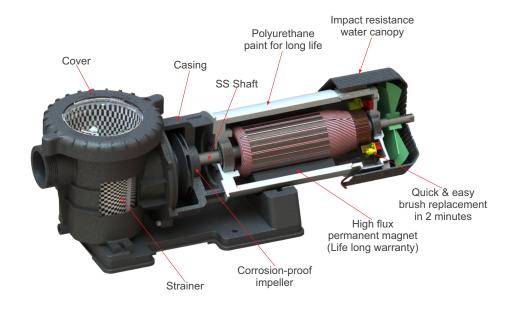
Rotosol RSP series of Pool pumps are designed for use in residential and commercial swimming pools and spas. The filtration requirements of most pools can be met by using these pumps which can be directly connected to the SPV array without the need for any controller or intermediate electronics. Use of high efficiency Permanent Magnet DC motors makes these pumps extremely efficient and simple to operate.

Application

 Residential and commercial swimming pools and spas



Features and benefits



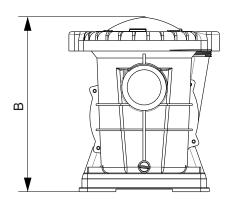


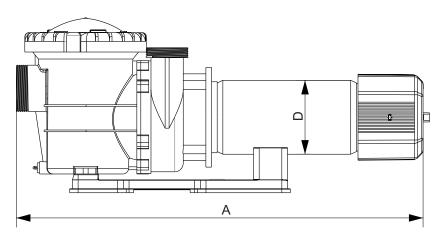
Specifications of Solar DC SSSurface Pumps



Label on Pump					
Model	RSP-24	RSP-30	RSP-60		
Voltage	30 VDC	30 VDC	60 VDC		
Current	25 Amp	25 Amp	25 Amp		
Max. Head	10 Mtr	13 Mtr	16 Mtr.		
Suction Head	3 Mtr	3 Mtr	3 Mtr		
Suction Pipe	1.5"	1.5"	2.5"		
Delivery Pipe	1.5"	1.5"	2.5"		

Dimensions of Solar DC SS Surface Pumps



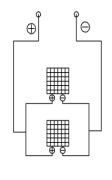


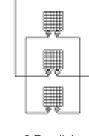
Model No.	Dimensional Details			nal Details	Module Details		Performance
	Α	В	ØD	Pipe Size	Module Size	No. of Module	Curves No.
RSP-24	632	276	126	1.5"X1.5"	230 Wp	2	0024
RSP-30	632	276	126	1.5"X1.5"	300 Wp	3	0030
RSP-60	720	300	126	2.5"X2.5"	300 Wp	3	0060

Preferred Solar PV Array

Panels Detail

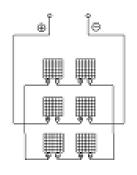
Wattage Wp	300 W 72 cell	230 W 60 cell
Voltage at maximum power Vmax	38.88 V	32.40 V
Open circuit voltage Voc	44.56 V	38.31 V
Current at maximum power Imax	7.71 A	7.09 A
Short circuit current Isc	8.48 A	7.80 A





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2 Parallel 460 Wp

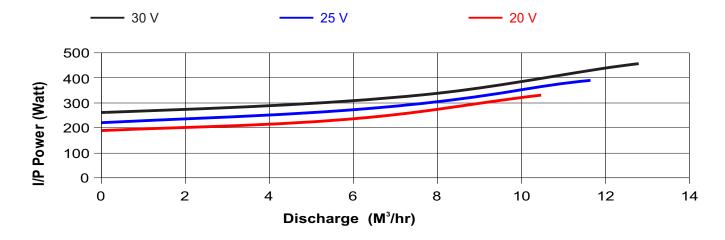
3 Parallel 900 Wp

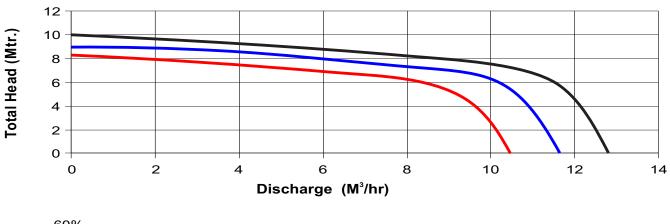
2 Series - 3 Parallel 1800 Wp

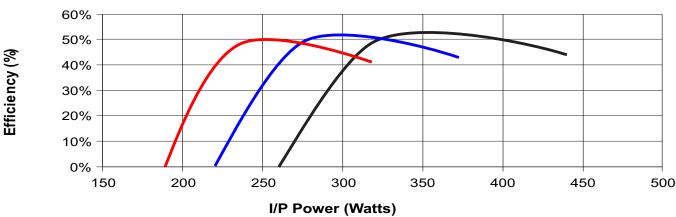


Performance characteristics of RSP-24 (No.:- 0024)

- Ambient Temperature 50°C.
- The water output shown is with continuous tracking, without tracking water output may reduce by 10-25% depending on angle of incidence.
- The actual output of PV array may be lower up to 30% depending on heat, dust and other losses.
- Radiation measured on an inclined plane.







Explanation on above Charts:

These curves are at 3 meter suction (Including friction loses) tested as per IS-5120-1977

Solar Pumps Division

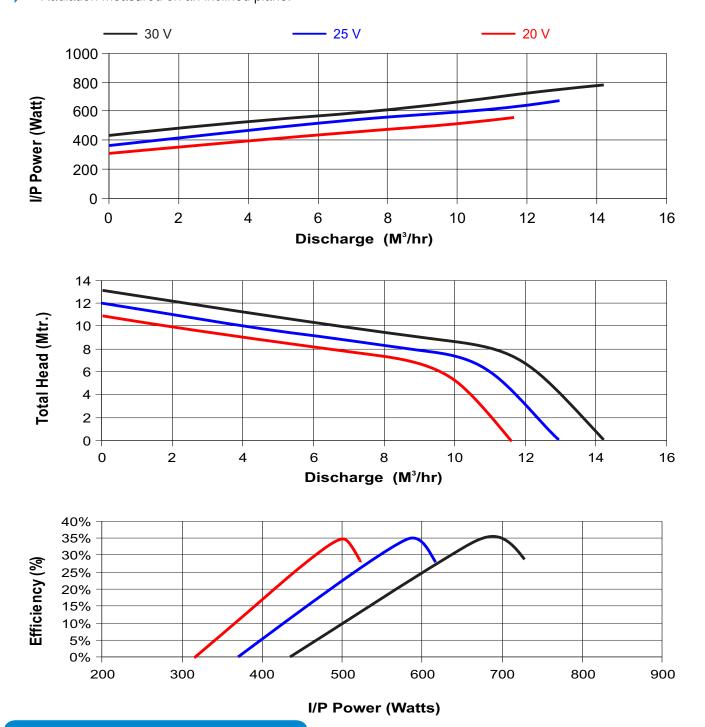
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Performance characteristics of RSP-30 (No.:- 0030)

- Ambient Temperature 50°C.
- The water output shown is with continuous tracking, without tracking water output may reduce by 10-25% depending on angle of incidence.
- The actual output of PV array may be lower up to 30% depending on heat, dust and other losses.
- Radiation measured on an inclined plane.



Explanation on above Charts:

These curves are at 3 meter suction (Including friction loses) tested as per IS-5120-1977

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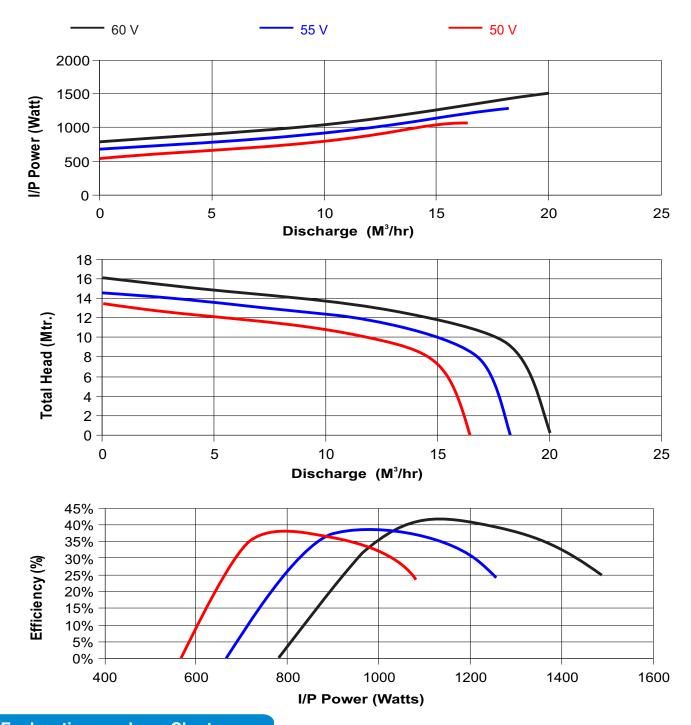
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Performance characteristics of RSP-60 (No.:- 0060)

- Ambient Temperature 50°C.
- The water output shown is with continuous tracking, without tracking water output may reduce by 10-25% depending on angle of incidence.
- The actual output of PV array may be lower up to 30% depending on heat, dust and other losses.
- Radiation measured on an inclined plane.



Explanation on above Charts:

These curves are at 3 meter suction (Including friction loses) tested as per IS-5120-1977

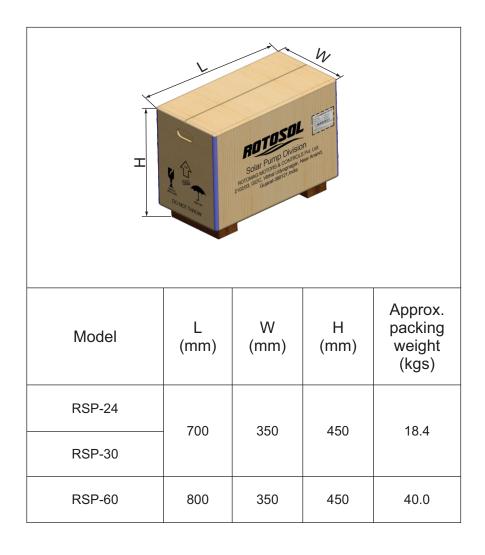
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Pool Pumps Packing Dimensions & Weight



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