

# NEW PRODUCT

PDP SERIES POSITIVE DISPLACEMENT PUMPS PRODUCT CATALOGUE 2021



# SOLAR ENERGY IS A **RENEWABLE**, **VAST AND CLEAN** RESOURCE

A typical solar pumping system consists of the following: A solar array to convert sunlight to electricity, a controller to manage the power from the array to the motor which rotates the pump to move the water to where you need it most.



## **iSOLAR 4" POSITIVE DISPLACEMENT PUMP SERIES**

The 4" Helical Rotor iSOLAR PDP4 range increases the scope and flexibility of the iSOLAR product suite employing the same proven, highly efficient and innovative iSOLAR M220HR motor.

The addition of a Positive Displacement Pump exploits the versatility of the motor's operating range to deliver water even when solar conditions are less than optimum.

The iSOLAR 4" PDP can be installed down a bore, in a tank or fitted to a pontoon to supply from an open body of water.

## 4" HELICAL SOLAR PUMP COMPLETE SOLUTION KIT:

#### Kit includes:

- 4" iCON Solar Motor with 3 meters power cable
- 4" iCON Positive Displacement Pump
- Low-level float switch with 30 meters cable
- Nylon Safety Rope 30 meters
- Built-in NRV

#### You will need:

• V3 controller / Pro controller (plug-n-play)

### **Optional add-ons:**

- Plug-n-play DC Isolator
- Solar panels
- Solar array mount (1 10 panel kits)
- Bore accessories

**MODELS AVAILABLE** 







WARRANTY

\*Images are for illustration purposes only. Actual product may vary.

Description	Part #	Motor (kW)	Rated Motor Speed (rpm)	Degree of Protection		Max Flow (lpm)	Min Fluid Temp (°C)	Max Fluid Temp (°C)	DC Voltage & Current			AC Voltage & Current	
									Vmpp	Voc	Amps (A)	Volts (V)	Amps (A)
BIA PDP4-SOLAR900	808695				300	11.5							
BIA PDP4-SOLAR1200	808696	2.2	3600	IP68	200	25	10	40	60-380	60-440	12	90-280	10
BIA PDP4-SOLAR1500	808697				140	46							

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Disclaimer: Every effort has been made to publish the correct details in this brochure. No responsibility will be taken for errors, omissions or changes in product specifications.

## **iSOLAR 3" POSITIVE DISPLACEMENT PUMP SERIES**

The 3" Helical Rotor iSOLAR PDP3 range provides a 'plug and play' kitset solution that requires only moderate DIY skills to install.

Ground water supply – supplying water from wells or reservoirs, ideal for farm, small waterworks. Ideal for windmill replacements.

The addition of a Positive Displacement Pump exploits the versatility of the motor's operating range to deliver water even when solar conditions are less than optimum.

The iSOLAR 3" PDP can be installed down a bore, in a tank or fitted to a pontoon to supply from an open body of water.

### **3" HELICAL SOLAR PUMP COMPLETE SOLUTION KIT:**

#### Kit includes:

- 3" iCON Solar Motor with 30 meters power cable with 4 pin plug
- 3" iCON Positive Displacement Pump
- iCON PDP3 Solar Controller (Plug-n-play)
- Float/Level Switch with 30 meters cable
- Nylon Safety Rope 30 meters
- Non-return Valve

### Optional add-ons:

- Plug-n-play DC Isolator
- Solar panels
- Solar post mount kit (1 to 4 panel kits)
- Bore accessories

**MODELS AVAILABLE** 



WARRANTY

\*Images are for illustration purposes only. Actual product may vary.

Description	Part #	Motor (kW)	Max Head (m)	Max Flow (lpm)	Controller (V)	Solar Array	Vmp (V)	Max VOC (V)	Max Amps
BIA-PDP3-SOLAR250	808691	0.25	60		24	1 x 300W	18-40	48	
BIA-PDP3-SOLAR370	808692	0.37	80	25	48	2 x 300W in series	40-76	96	15
BIA-PDP3-SOLAR750	808694	0.7	140		96	4 x 300W in series	80-140	180	

# WINDMILL REPLACEMENT MARKET

- Solar Pumps are low maintenance, easy to install, have little to no recurring costs and virtually operate themselves requiring only sunlight to pump water.
- Windmills often require maintenance, repair and replacement of parts which is often expensive and labor intensive. Furthermore, if there is no wind there is no water.
- A solar pump will be in use whenever there is sunlight, even on overcast and cloudy days.







The iSOLAR web selector is a simple and quick pump selection process which provides all the information needed for your next solar pump quote.

#### How it works

- Visit the website isolarselector.whiteint.com.au • isolarselector.whiteint.co.nz
- Enter your location & water requirements .
- The iSOLAR web selector will determine the • average available monthly solar hours, pump needed, number of solar panels required and more
- Simply download and email a copy of the results .



INPUT DATA	SOLAR IRRADIATION DATA					
LOCATION/POST-CODE: Sydney TOTAL DYNAMIC HEAD: 100m FLOW-RATE: 2.000L/Day; 7U/min; 0.11L/sec SEASON: Average DAYLIGHT HOURS: 4.85 hrs/day	Salar Imadadaa fay Syldwy, Awrape 4 85 houn per day					
PUMP DETAILS	yn edda y					
Description: DAB-S4A36SOL Item code: 805150 Max Head: 120m Max Flow: 23L/min	3. Jan ret Mar Apr May Jan Ja Aug Seg Oct Nov Do					
Downloads	DAILY OUTPUT GRAPH					
SELECTION GUIDE OPERATION & INSTALLATION MANUAL DATA SHEET	Daily output values for Sydney					
SOLAR ARRAY DETAILS Description: BIA-ER02PM Item code: 805923 No of Panels: 2 Mount: Pole						
PERFORMANCE CURVE	PRODUCTS REQUIRED FOR THE ISOLAR SYSTEM					
for the second s	Soliso – DAB-S443850L (Includes motor and pump)     Solizo – BAB-S443850L (Includes motor and pump)     Solizo – BAB-S443850L (Includes 2x MC4 – 3m, 2x MC4 – 10m, 1x 1000V 25A DC isolater     Post mount 2 x 333W plants)     Solar controller & Row meter     CHECKLIST     A. Over-sizing Solar panels: Max power of the solar arrays must not exceed     440% of 2 k2mps - Do CP wer     B. Sizing up a generator: Take total kW of the solar array, multiply by 1.1 and     then divide by 0.8 to arrive at the minimum kVa required from the generator     C. Shaft transions: When manuplutaing the shaft without power the shaft may     appear to be light. BM-M24205U: motors have a tighter shaft due to the magnetic     froor required to support to a 320m head.     wr.					

\*Image is for illustration purposes only.

Available from your local iSOLAR distributor:

SOLARPDPSERIES JANUARY202

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technical information & new product innovations

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