

PDP SERIES

3" HELICAL SOLAR PUMP COMPLETE SOLUTION KIT

The 3" helical rotor iSolar PDP range provides a 'plug and play' kit set solution that requires only moderate DIY skills to install and has little ongoing maintenance requirements.

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.

Kit Includes:

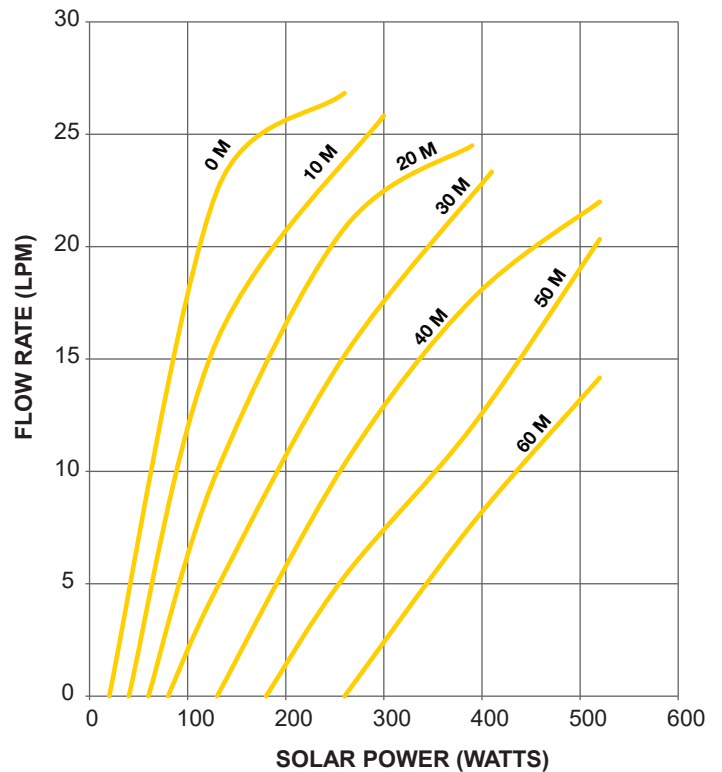
- 3" iCON Solar Motor & 30 meters cable with 4 pin plug
- 3" iCON Positive Displacement Pump
- iCON PDP3 Solar Controller
- Float/Level Switch with 30 meters cable
- Nylon Safety Rope - 30 meters
- Non-return Valve - 1"



| MODEL | BIA-PDP3 SOLAR250 |
|----------------|-------------------|
| Motor (kW) | 0.25 |
| Max Head (m) | 60 |
| Max Flow (lpm) | 25 |
| Controller (V) | 24 |
| Solar Array | 1 x 300W |
| Vmp (V) | 18-40 |
| Max VOC (V) | 48 |
| Max Amps | 15 |

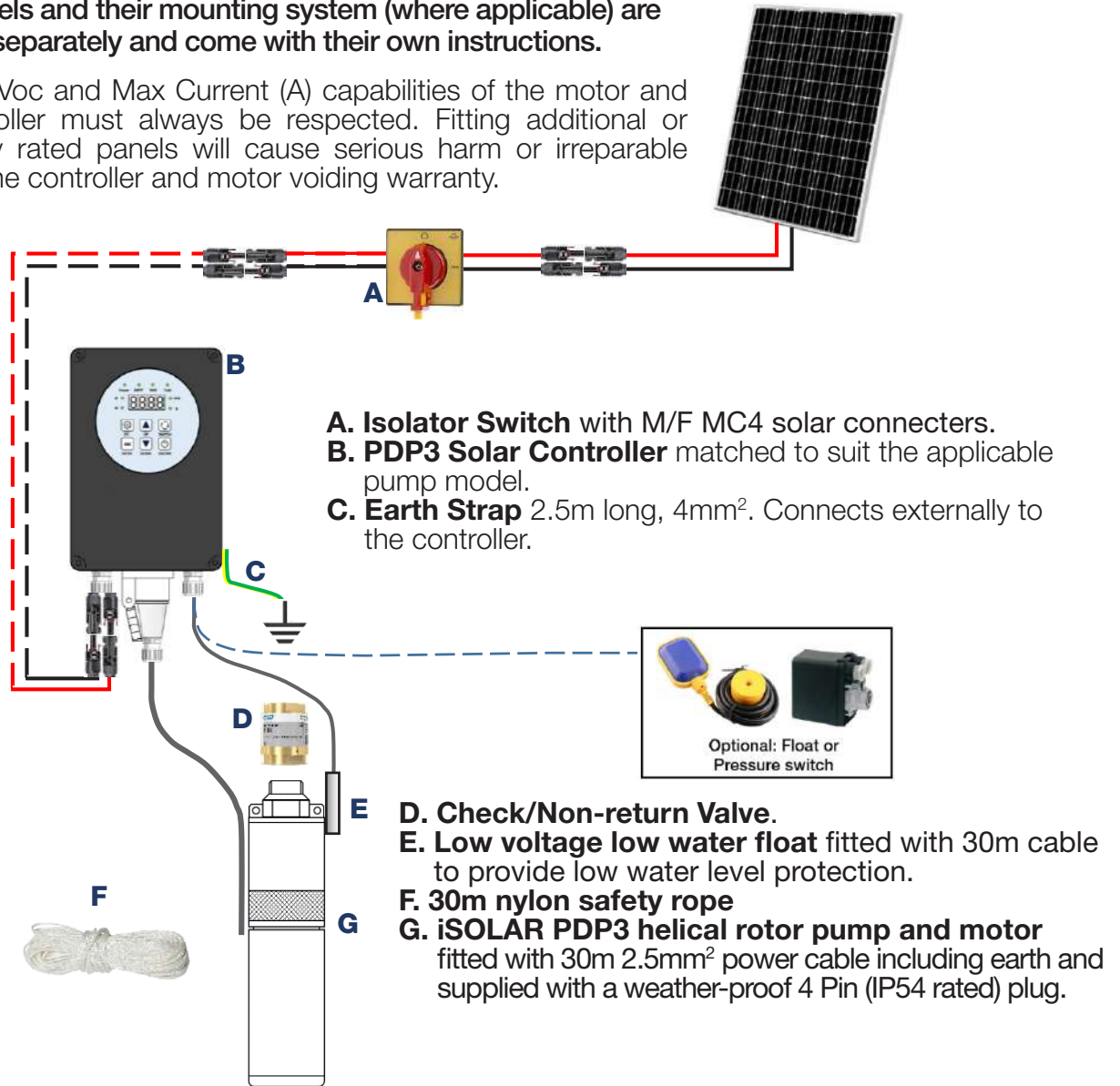
Solar array recommendation indicative only
Solar inputs must respect the VOC and Max Current (Amperage) values

BIA-PDP3 SOLAR250



Solar Panels and their mounting system (where applicable) are supplied separately and come with their own instructions.

The Max Voc and Max Current (A) capabilities of the motor and the controller must always be respected. Fitting additional or incorrectly rated panels will cause serious harm or irreparable harm to the controller and motor voiding warranty.



Maximum Pump Submergence is 100m

If intending to extend the power cable, use this chart as a guide. Exact cable size will vary according to the input characteristics and technical specifications of the solar panel. Calculations assumes 5% loss.

| SOLAR PANEL INPUT | | | | | CABLE LENGTH (UP to 'X' Meters) | | | | | |
|-------------------|---------|---------|------|------|---------------------------------|------|------|------|------|-------|
| Watts | Panels | Max VOC | Vmpp | Amps | < 10 | < 25 | < 30 | < 50 | < 75 | < 100 |
| | | | | | CROSS SECTION MM ² | | | | | |
| 300 | 1 x 300 | 48V | 35 | 10 | 2.5 | 2.5 | 2.5 | 6 | 10 | 10 |
| 600 | 2 x 300 | 96V | 70 | 10 | 2.5 | 2.5 | 2.5 | 2.5 | 4 | 6 |
| 900 | 3 x 300 | 150V | 105 | 10 | 2.5 | 2.5 | 2.5 | 2.5 | 2.5 | 4 |
| 1200 | 4 x 300 | 180V | 140 | 10 | 2.5 | 2.5 | 2.5 | 2.5 | 2.5 | 4 |

Total cable length is measured from the solar array to the pump motor.