CEVA

CEDAR PUMPS®

# DC Solar Pumps

The Ceva is a DC solar borehole pump for homes and smallholdings. We built it on 15 years of feedback from installers and farmers across Southern Africa.



- Full SS304 stainless steel construction. Every part is SS304, not the cheaper SS201 that many pumps use. It holds up against corrosion and hard borehole water.
- Goes deeper. It pumps from deeper boreholes than other DC pumps in its class.
- Handles bigger panels. Its higher Voc limit means it runs on today's larger, higher-voltage solar panels.
- Dry-run protection shuts the pump off when the water level drops.

| Pump Model | Ceva 55 | Ceva 80 | Ceva 100 | Ceva 150 | Ceva 180 |
|---|---|---|---|---|---|
| Type | Helical Rotor | Helical Rotor | Helical Rotor | Helical Rotor | Helical Rotor |
| Rating (W) | 120 | 210 | 500 | 750 | 1100 |
| Max Head (m) | 56 | 77 | 109 | 125 | 155 |
| Max Flow (m3/h) | 1.2 | 1.2 | 1.7 | 2.0 | 2.2 |
| Max Depth (m under water) | 50 | 50 | 50 | 70 | 70 |
| Optimal Volts (Voc) | 48 | 48 | 90 | 90 | 120 |
| Outlet (mm) | 20 | | | | |
| AC Input | Optional | | | | |
| Diameter | 75 | 75 | 75 | 75 | 75 |
| Height (mm) | 420 | 420 | 420 | 420 | 420 |
| **Max Voltage (V)*** | **55** | **55** | **110** | **110** | **160** |
| Min Voltage (V) | 30 | 30 | 60 | 60 | 90 |
| Max Current (A) | 17 | 17 | 17 | 17 | 17 |
| Controller | External 24V | External 36V | External 48V | External 48V | External 72V |
| Well Sensor Included? | Sensor Only | Sensor Only | Sensor Only | Sensor Only | Sensor Only |
| Recommended Dry Run Sensor | External | External | External | External | External |
| Warranty | 2 Years | | | | |
| Example Panel Config | 1x 400-550w | 1x 400-550w | 2x 400-550w | 2x 400-550w | 3x 400-550w |
| Panel Connection (Parallel or Series) | - | - | Series | Series | Series |

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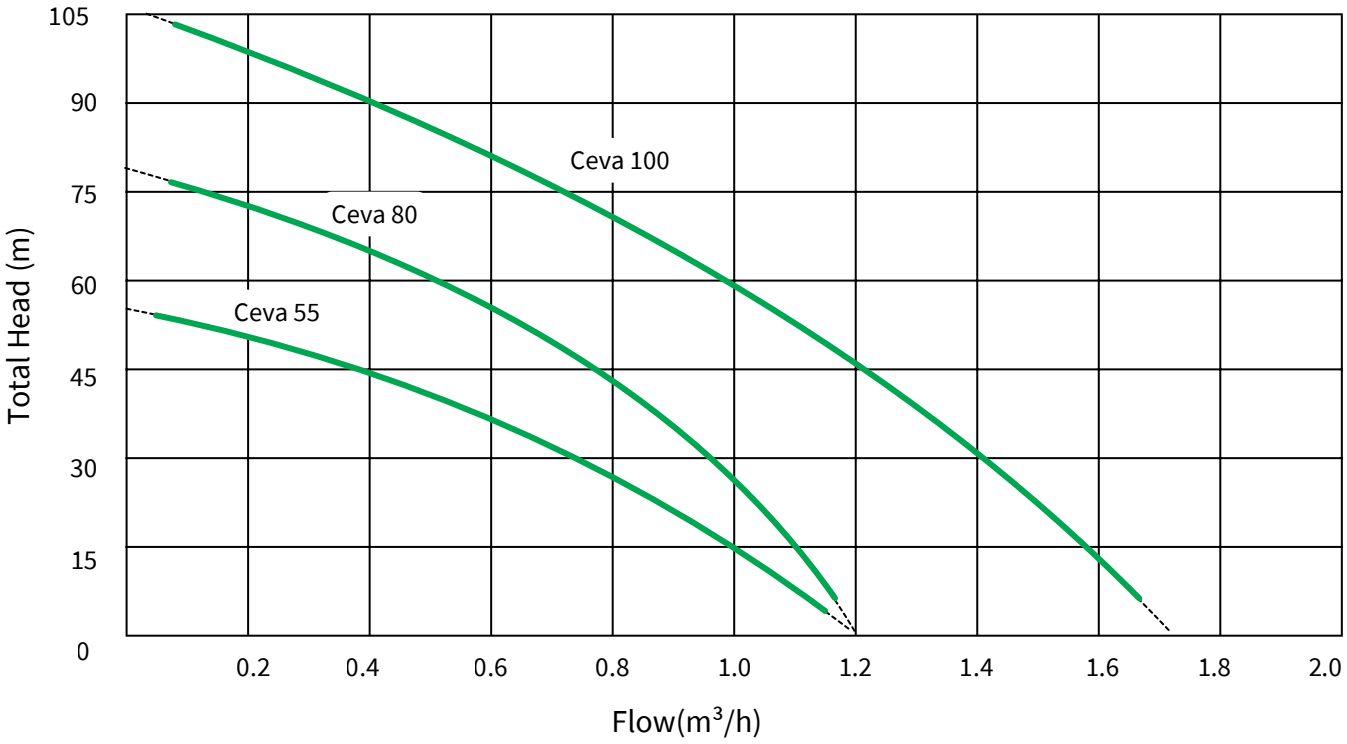
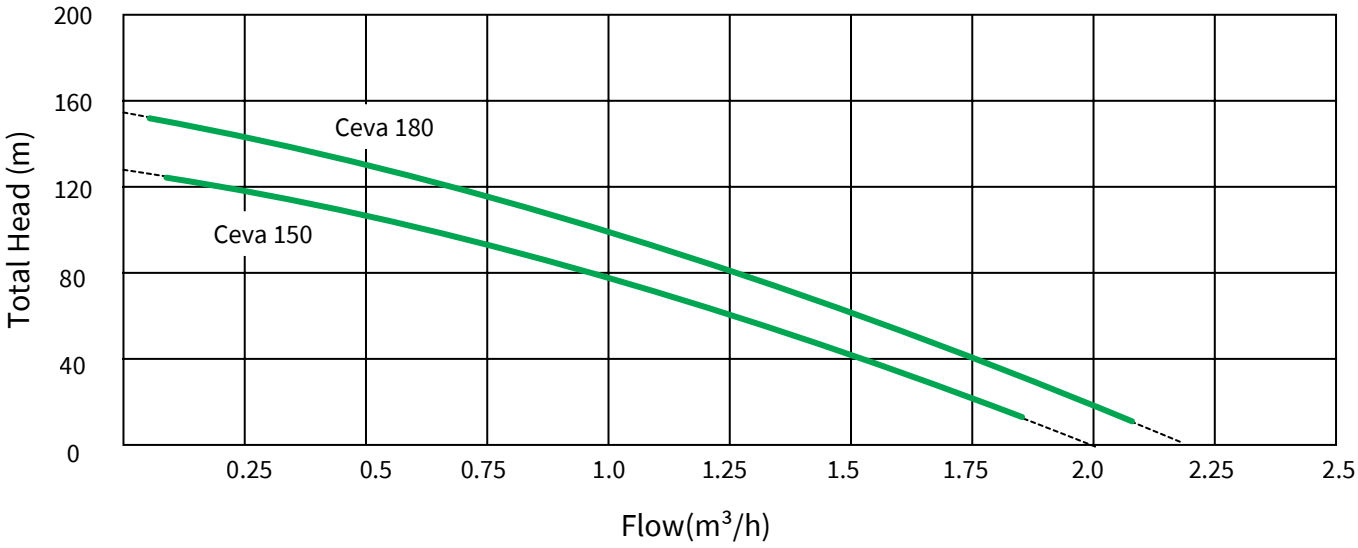
## Flow Curves




*Note: The pump curves in this brochure assume ideal sun conditions. Real flow depends on the solar irradiance at the site. Before you quote, size the system in the Cedar Sizing App on the Cedar portal. It uses local sun data, so you can give your customer a flow figure they can rely on.*

## Package Contents

*Included:* The pump (motor and pump end), controller and well sensor are included.

*Sold separately:* The well sensor cable, tank sensor, tank sensor cable, spare rotors, splice kit, submersible cable, rope, baseplate, pipe, pipe fittings and sediment sleeve are sold separately.