



- IDEAL FOR BOREHOLE MOTORS / PUMPS
- WIDE INPUT VOLTAGE : 60 – 150V DC
- 1-PHASE OR 3-PHASE OUTPUT
- OUTPUT POWER : 0.37 - 0.55KW
- START UP CURRENT CONTROL
- IP65

The SWAN SMART SOLAR PUMP drives are designed to be supplied by one or more solar panels, depending on the pump motor size.



Our drives are stand-alone units, that besides the solar panels, do not require any external components. They can drive single or 3-phase motors, depending on the selected model, as listed below.

| SPECIFICATIONS               |                            |         |                            |         |
|------------------------------|----------------------------|---------|----------------------------|---------|
|                              | 282 410                    | 282 411 | 282 440                    | 282 450 |
| <b>OUTPUT TO MOTOR</b>       | <b>1-PHASE 230Vac 50Hz</b> |         | <b>3-PHASE 400Vac 50Hz</b> |         |
| <b>MOTOR RATING (KW)</b>     | 0.37                       | 0.55kW  | 0.37kW                     | 0.55Kw  |
| <b>MAX MOTOR AMPS (A)</b>    | 4                          | 6       | 1.6                        | 2       |
| <b>MIN INPUT VOLTS (VDC)</b> | 60                         | 60      | 60                         | 60      |
| <b>MAX INPUT VOLTS (VDC)</b> | 150                        | 150     | 150                        | 150     |
| <b>MAX INPUT AMPS (A)</b>    | 11                         | 11      | 11                         | 11      |
| <b>MIN INPUT POWER (W)</b>   | 500                        | 500     | 500                        | 500     |
| <b>MAX INPUT POWER (W)</b>   | 1,500                      | 1,500   | 1,500                      | 1,500   |
| <b>SOLAR PANEL MIN. Wp</b>   | 650                        | 1,000   | 650                        | 1,000   |
| <b>SOLAR PANEL MAX. Wp</b>   | 900                        | 1,300   | 900                        | 1,300   |
| <b>WEIGHT (Kg)</b>           | 3.2                        | 3.2     | 3.2                        | 3.2     |

| APPLICATIONS             |                                     |
|--------------------------|-------------------------------------|
| <b>GAME WATERING</b>     | <b>DOMESTIC / HOME WATER SUPPLY</b> |
| <b>RESERVOIR FILLING</b> | <b>RURAL WATER SUPPLY</b>           |

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## RELATED PRODUCTS BY SWAN ELECTRIC

|  |  |  |
|--|--|--|
|   | <p><b>MAINS (AC) BACKUP<br/>POWER SUPPLY UNIT</b></p> <p>MODEL : 286410 &amp; 286420</p> | <ul style="list-style-type: none"> <li>MANUALLY SELECT AC / DC INPUT</li> </ul>  |
|  | <p><b>HYBRID POWER<br/>SUPPLY UNIT</b></p> <p>MODEL : 286430</p>                         | <ul style="list-style-type: none"> <li>AUTOMATIC PV / DC OPERATION</li> </ul>  |
|  | <p><b>ENCLOSED<br/>CHANGE OVER SWITCH</b></p>  | <ul style="list-style-type: none"> <li>MANUALLY SELECT PV / DC<br/>OR MAINS (AC) OPERATION<br/>OR GENERATOR (AC) OPERATION.</li> </ul> |

## INSTALLATION

- INSTALLATION, TESTING AND CERTIFICATION BY QUALIFIED PERSONNEL ONLY
- SERVICING BY QUALIFIED PERSONNEL ONLY
- NO SETTINGS OR CONFIGURATIONS REQUIRED

## SAFETY NOTES

- DO NOT INSTALL, SERVICE OR OPERATE IN / UNDER RAINY CONDITIONS
- DO NOT OPEN - LETHAL VOLTAGES AND CURRENTS INSIDE

## DOCUMENT TRACKING & CATALOGUE LINK

| EDITED BY      | DATE        | APPROVED BY  | DATE        |
|----------------|-------------|--------------|-------------|
| MANNY MOUTINHO | 25 OCT 2023 | STEPHEN COOK | 25 OCT 2023 |



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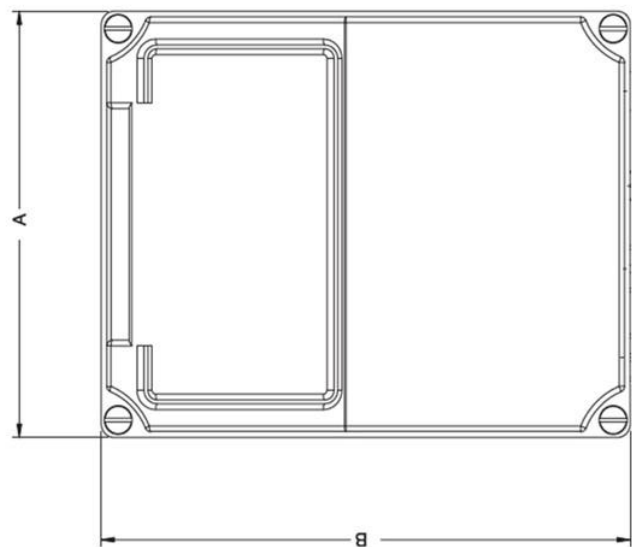
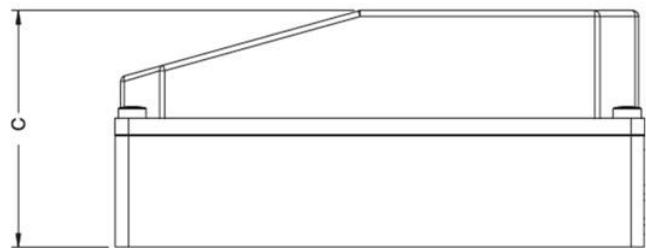
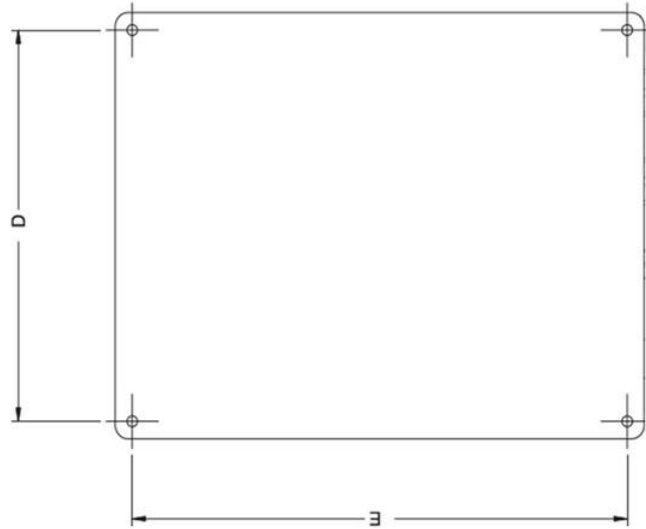
## DIMENSIONS

282 410

282 411

282 440

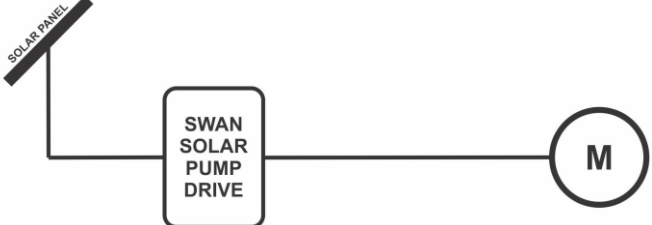
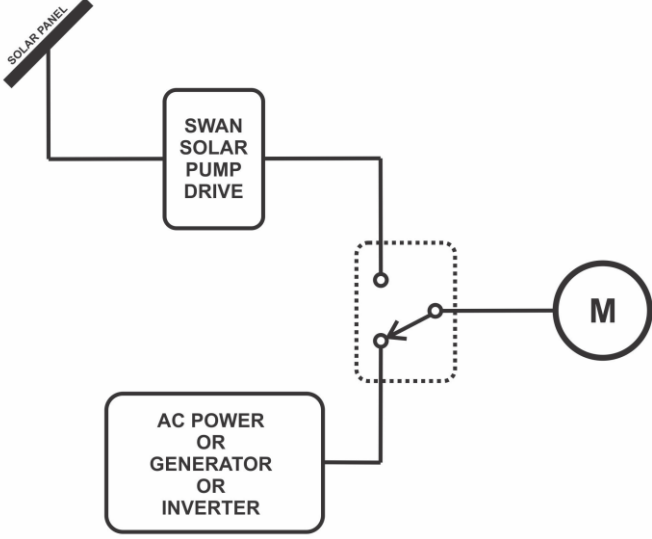
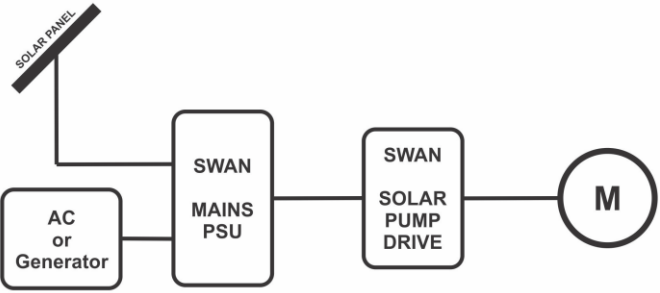
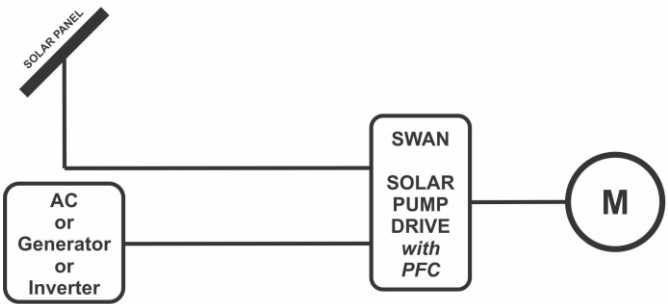
282 450



|   |   |        |       |
|---|---|--------|-------|
|   |   | WEIGHT | 3200g |
|   | E |        | 266mm |
|   | D |        | 203mm |
|   | C |        | 124mm |
|   | B |        | 286mm |
| A |   |        | 223mm |

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## ALTERNATE INSTALLATIONS

|   |  |
|---|--|
|    | <p><b>MOST ECONOMIC AND BASIC INSTALLATION....</b></p> <p>SOLAR PANELS, SWAN SOLAR DRIVE AND PUMP !</p> <p>IDEAL FOR OFF-GRID SWIMMING POOLS AND PONDS</p>   |
|   | <p><b>BASIC INSTALLATION...</b></p> <p>SOLAR PANELS, SWAN SOLAR DRIVE, MANUAL CHANGEOVER SWITCH, AND PUMP</p> <p>IDEAL FOR SITUATIONS WERE MAINS BACKUP IS REQUIRED</p>  |
|  | <p><b>INSTALLATION WITH AUTOMATIC CHANGEOVER...</b></p> <p>SOLAR PANELS, SWAN MAINS PSU UNIT, SWAN SOLAR DRIVE, AND PUMP</p> <p>IDEAL FOR SITUATIONS WERE MAINS BACKUP IS REQUIRED WITH AUTOMATIC CHANGEOVER</p>                                       |
|  | <p><b>ADVANCED INSTALLATION WITH BUILT-IN AUTOMATIC CHANGEOVER...</b></p> <p>SOLAR PANELS, ADVANCED SWAN SOLAR DRIVE, PUMP</p> <p>IDEAL FOR SITUATIONS WERE MAINS BACKUP IS REQUIRED WITH AUTOMATIC CHANGEOVER AND STARTUP CURRENT CONTROL ( PFC )</p> |