



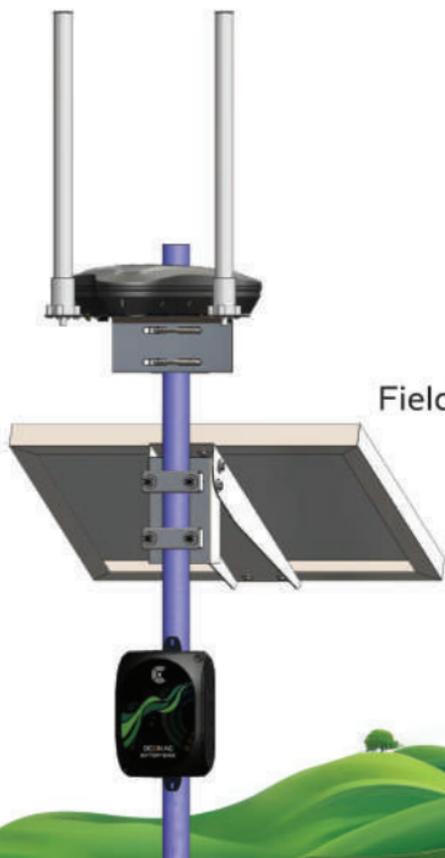
IRRIGATION AUTOMATION



Dcon Ag

AIR

Field Installation Document



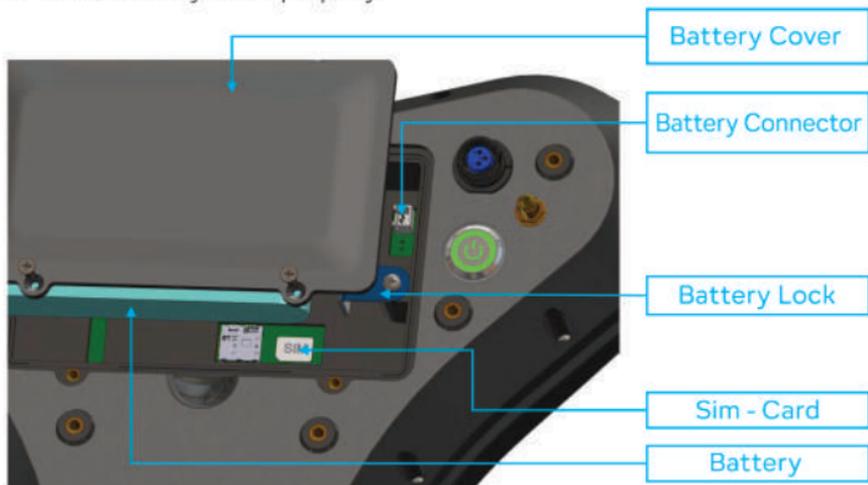
Technical Specification

| | |
|------------------------|-----------------------------------|
| Product Name | : Dcon_Ag_Air |
| Solar Panel | : 12.5V/40W |
| Battery Bank | : 7.4V/15Ah |
| Internal Battery | : 3.7V/15Ah |
| Backup Time | : 96 Hours |
| Cloud Communication | : 4G/Wi-Fi |
| Internal Communication | : LORA (2 band) and Bluetooth 5.0 |
| GPS | : Inbuilt |
| Internal Storage | : 1 year log backup |

ASSEMBLY PROCEDURE

Sim-Card Installation

- Open battery cover and loose battery lock.
- Remove 6-cell battery and insert sim card from the customer at the position marked.
- Connect battery and place battery with battery lock.
- Close battery cover properly.



Mounting Assembly

- Place the mounting plate with M4 screws at marked positions



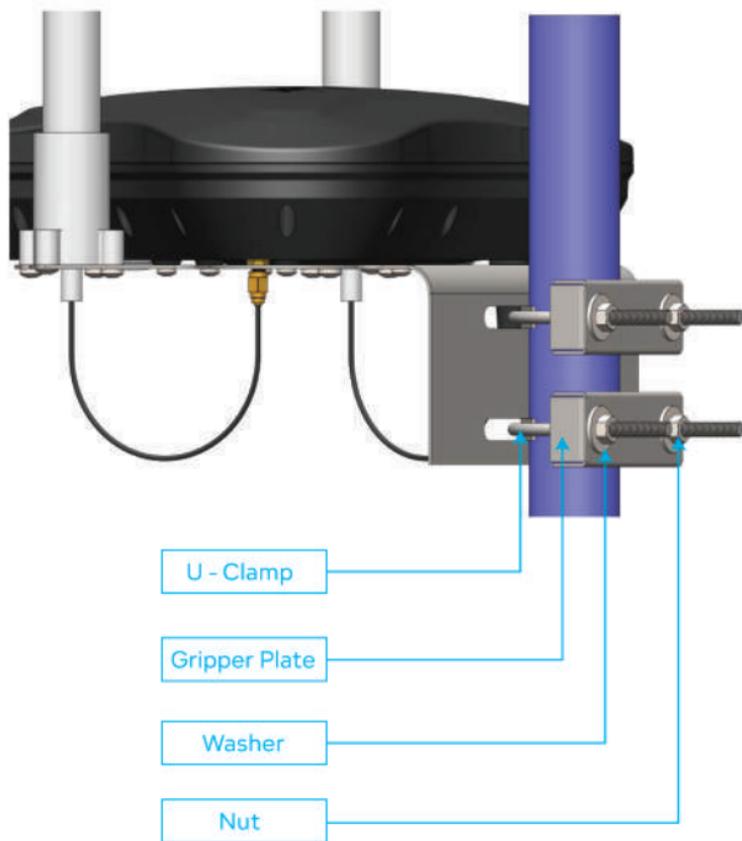
Antenna Assembly

- Place the antenna on the mounting plate with M5x8mm screw at marked positions



Pole Assembly

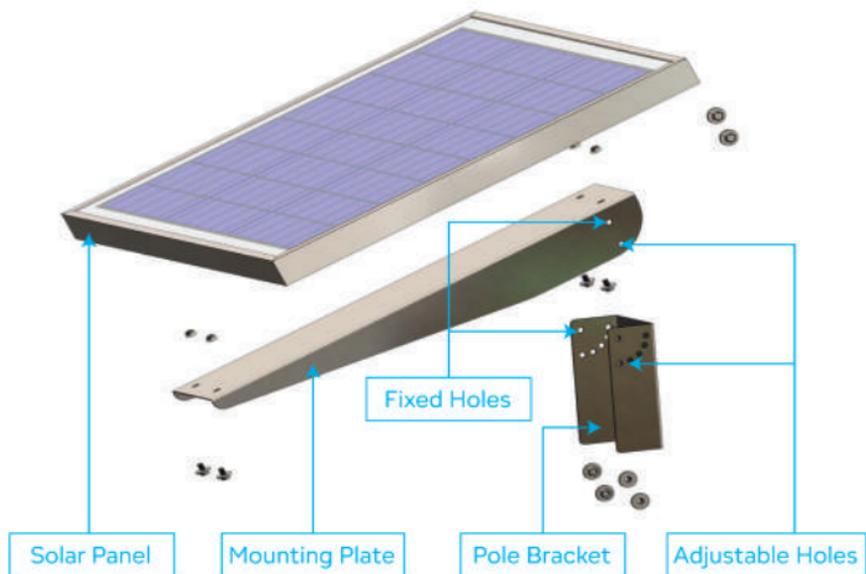
- Place the enclosure assembly on the pole at the height as per instructions.
- Pole mounting with gripper plate, U-Clamp, M6 washer and M6 nut.



Solar Panel Sub - Assembly

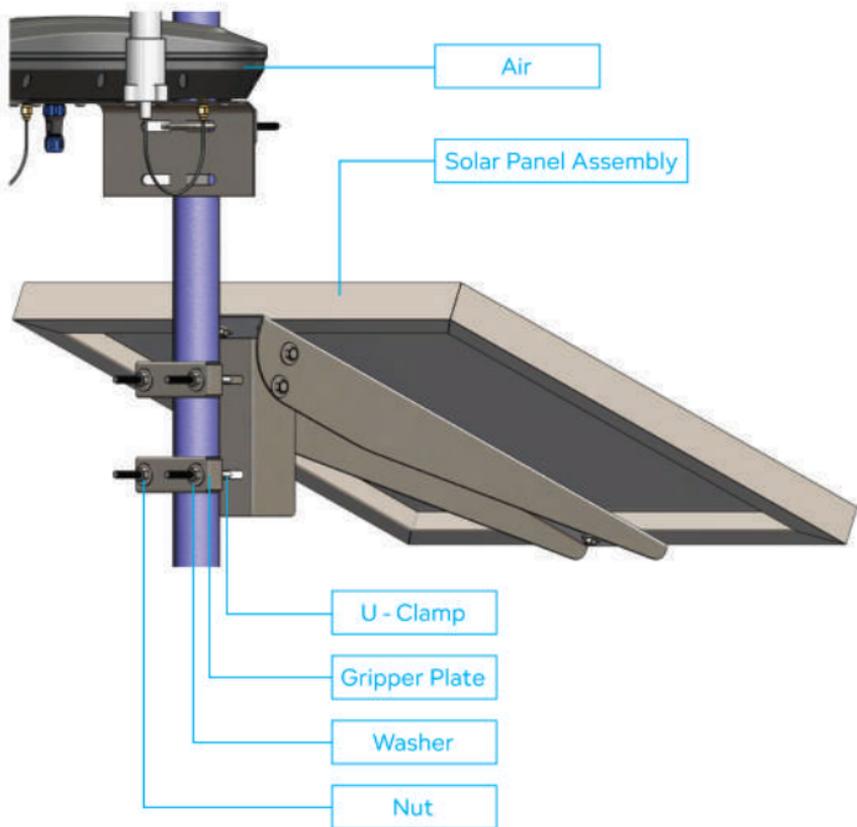
- Solar panel assembled with mounting plate with M5 bolt and nut.
- After assemble mounting plate, assemble pole bracket with M6 bolt and nut.
- Solar panel angle adjustments through holes in the pole bracket.

| Hole Number | Description |
|-------------|----------------------------------|
| 1 | 90 deg, solar panel faced to sky |
| 2 | 67.5 deg |
| 3 | 45 deg |
| 4 | 22.5 deg |
| 5 | 0 deg, solar panel faced to us |



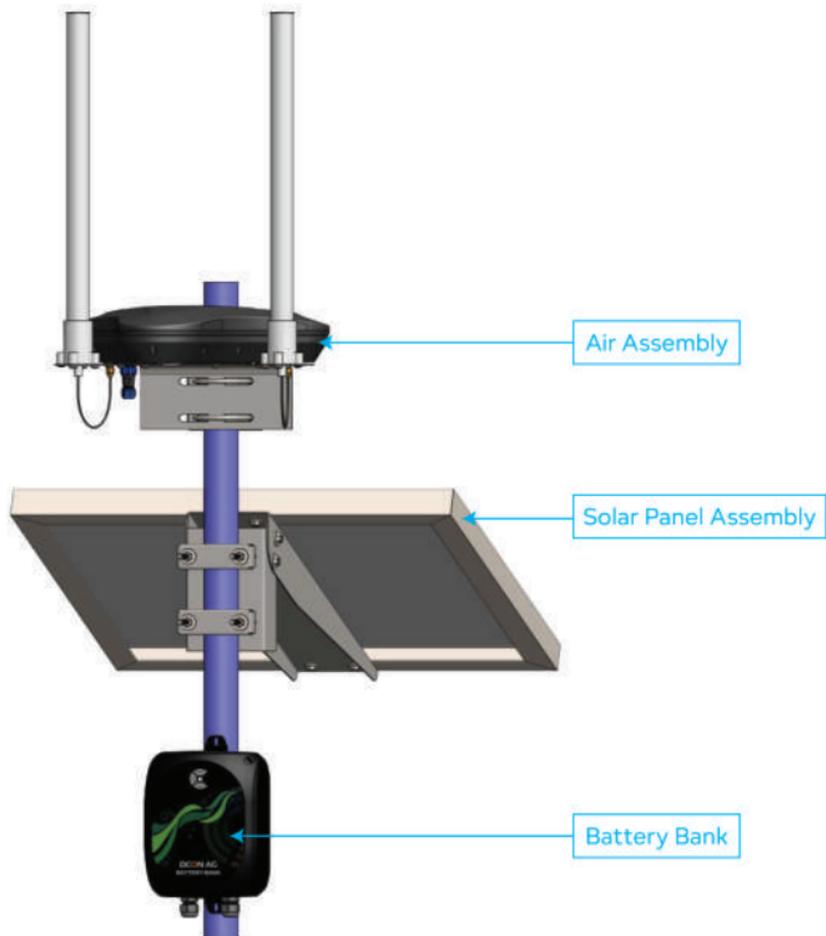
Solar Panel Assembly

- Install solar panel on the same pole at shadow free position.
- Place the enclosure assembly on the pole at the height as per instructions.
- Pole mounting with gripper plate, U-Clamp, M6 washer and M6 Nut.



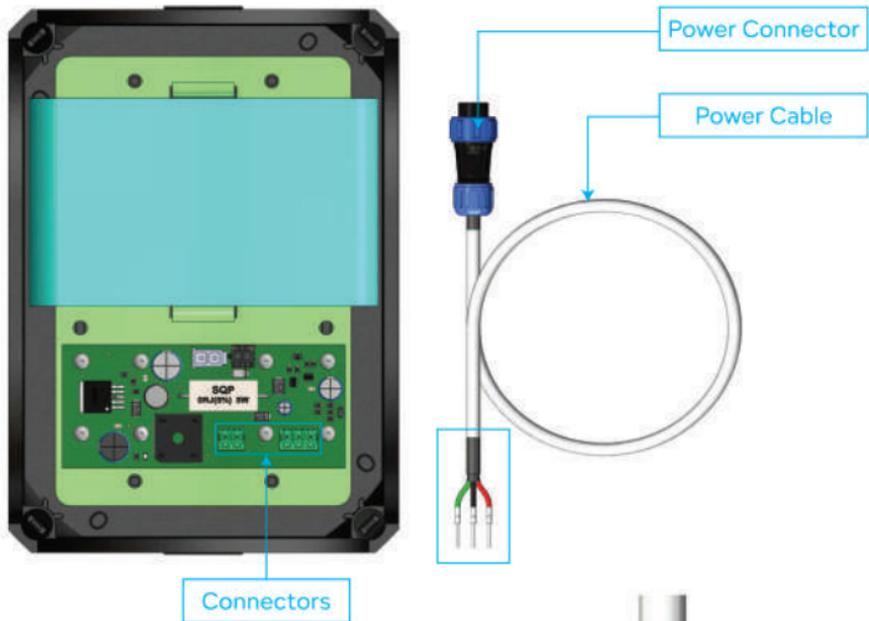
Battery Bank Installation

- Place the battery bank under the solar panel assembly and connect the power plug to air assembly unit.

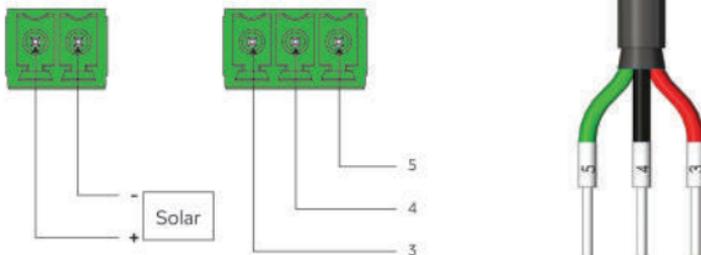


Battery Bank Wiring

- Connect solar output to battery bank input and connect battery bank output with power connector to air.

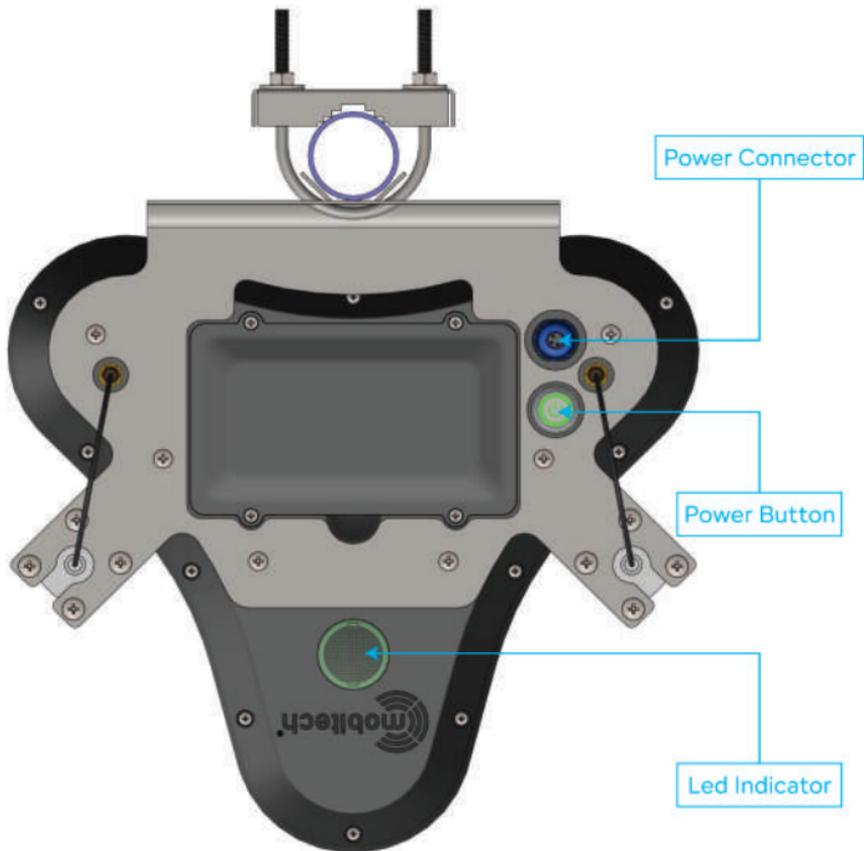


Battery Bank Wiring Drawing



Installation

- Connect power connector from battery bank to air.
- Power on air with push button.



Led Color Indications

| LED Color | Blink Count | Interval Time | Description |
|----------------------|-------------|---------------|-----------------------|
| Green & Red | Continuous | 1 sec | Power ON |
| WITH BATTERY BANK | | | |
| Green | 1 | 1 sec | Network not connected |
| Green | 1 | 3 sec | Network connected |
| Green | 2 | 3 sec | GPRS connected |
| WITHOUT BATTERY BANK | | | |
| Red | 1 | 1 sec | Network not connected |
| Red | 1 | 3 sec | Network connected |
| Red | 2 | 3 sec | GPRS connected |
