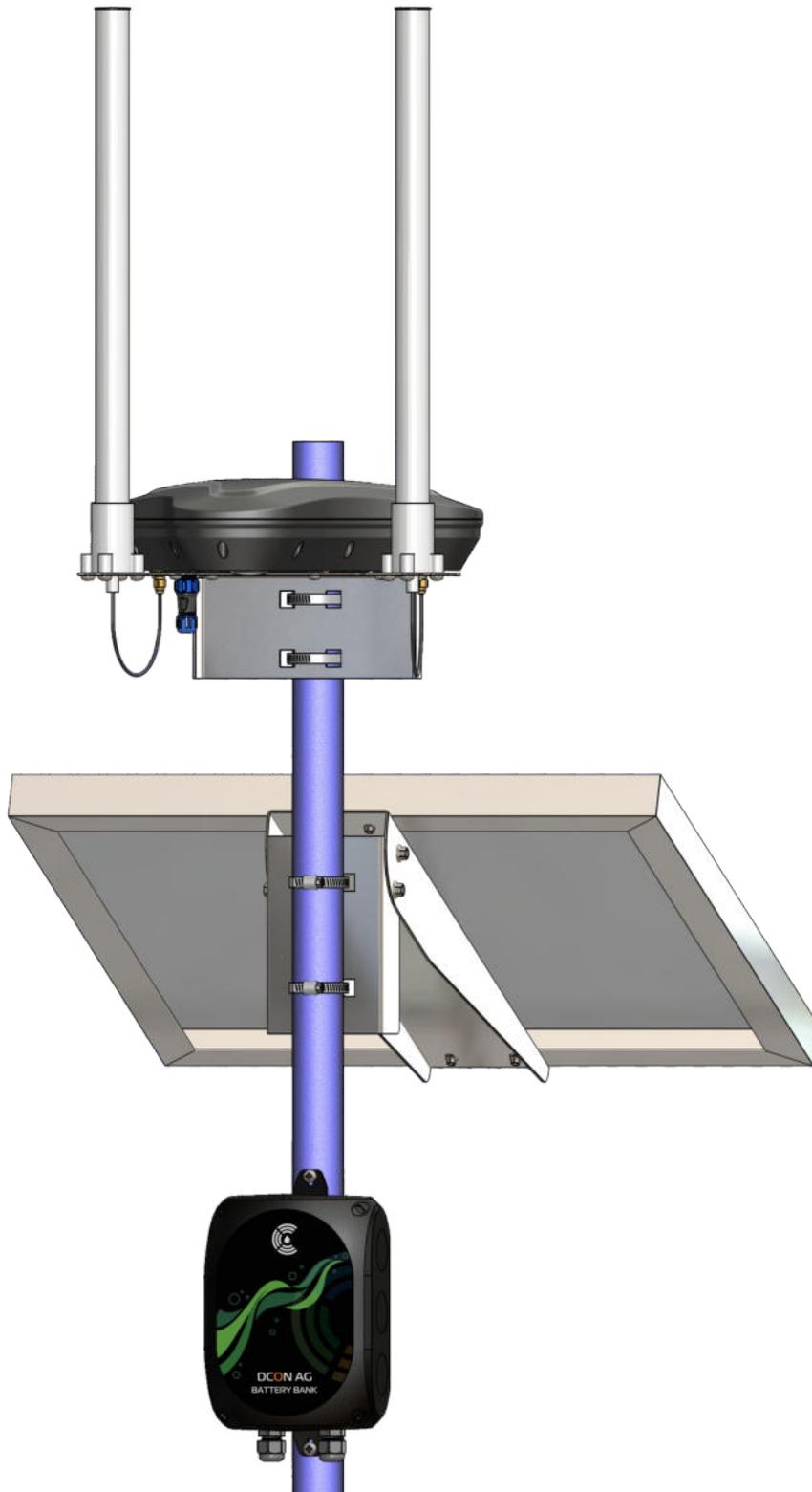




IRRIGATION AUTOMATION

# Dcon\_Ag\_AIR

Field Installation Document





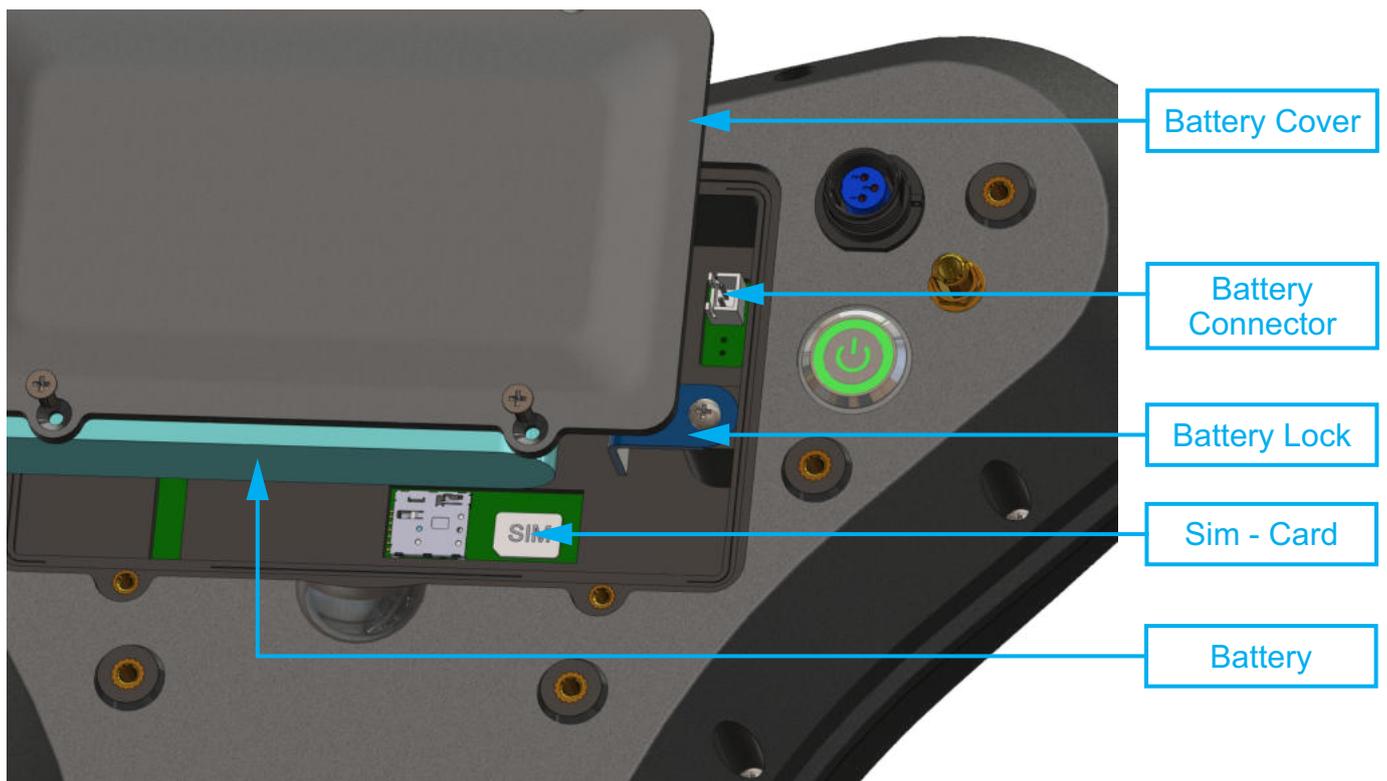
### Technical Specification:

- Product Name : Dcon\_Ag\_Air
- Solar Panel : 12.5V/40W
- Battery Bank : 3.7V/15Ah
- Internal Battery : 3.7V/15Ah
- Backup Time : 96 Hours
- Communication : LORA (2 band) and Blue tooth 5.0
- GPS : Inbuilt
- Internal Storage : 1 year log backup

### Assembly Procedure:

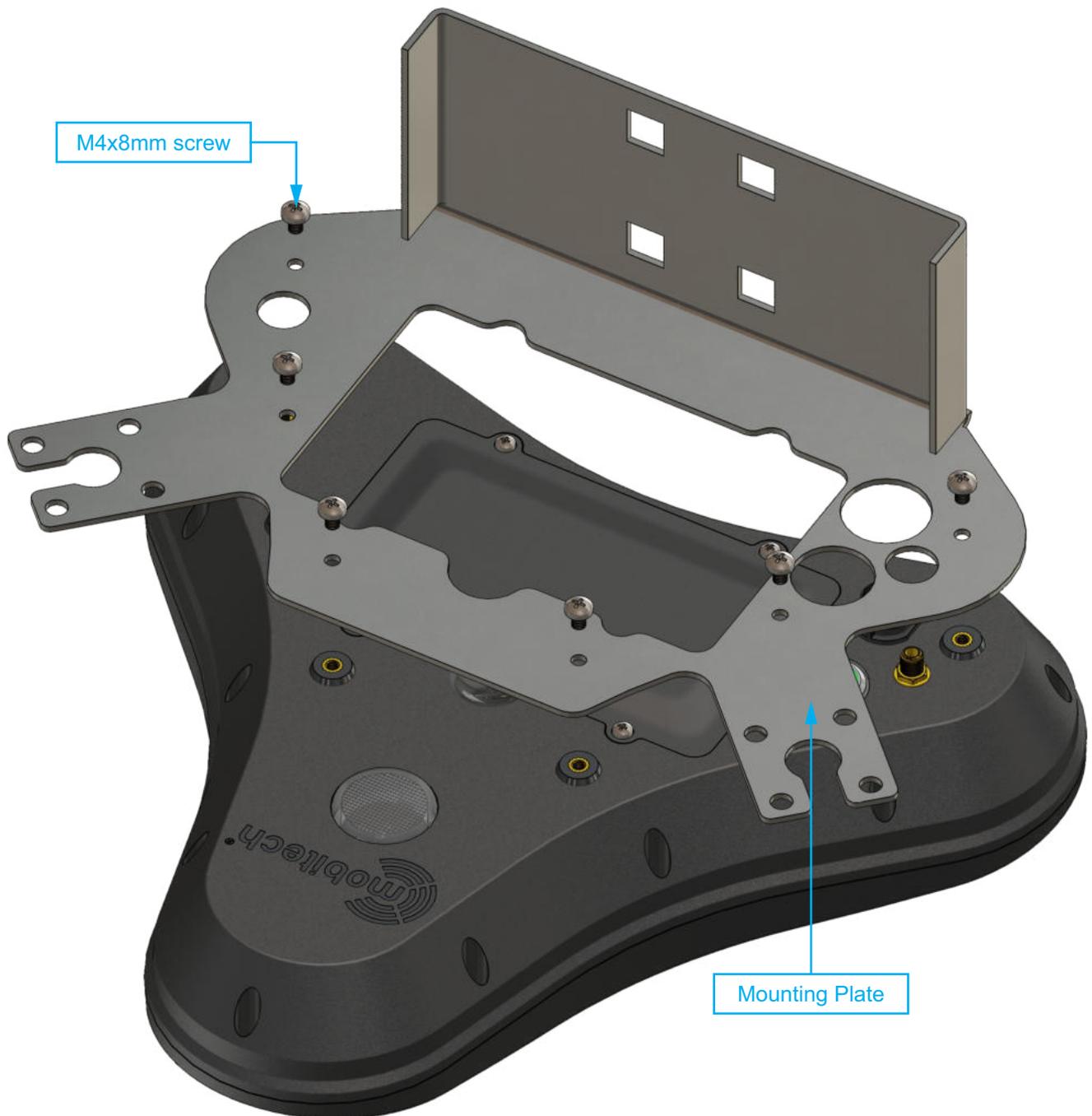
#### Sim-Card Installation:

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



### Mounting Assembly:

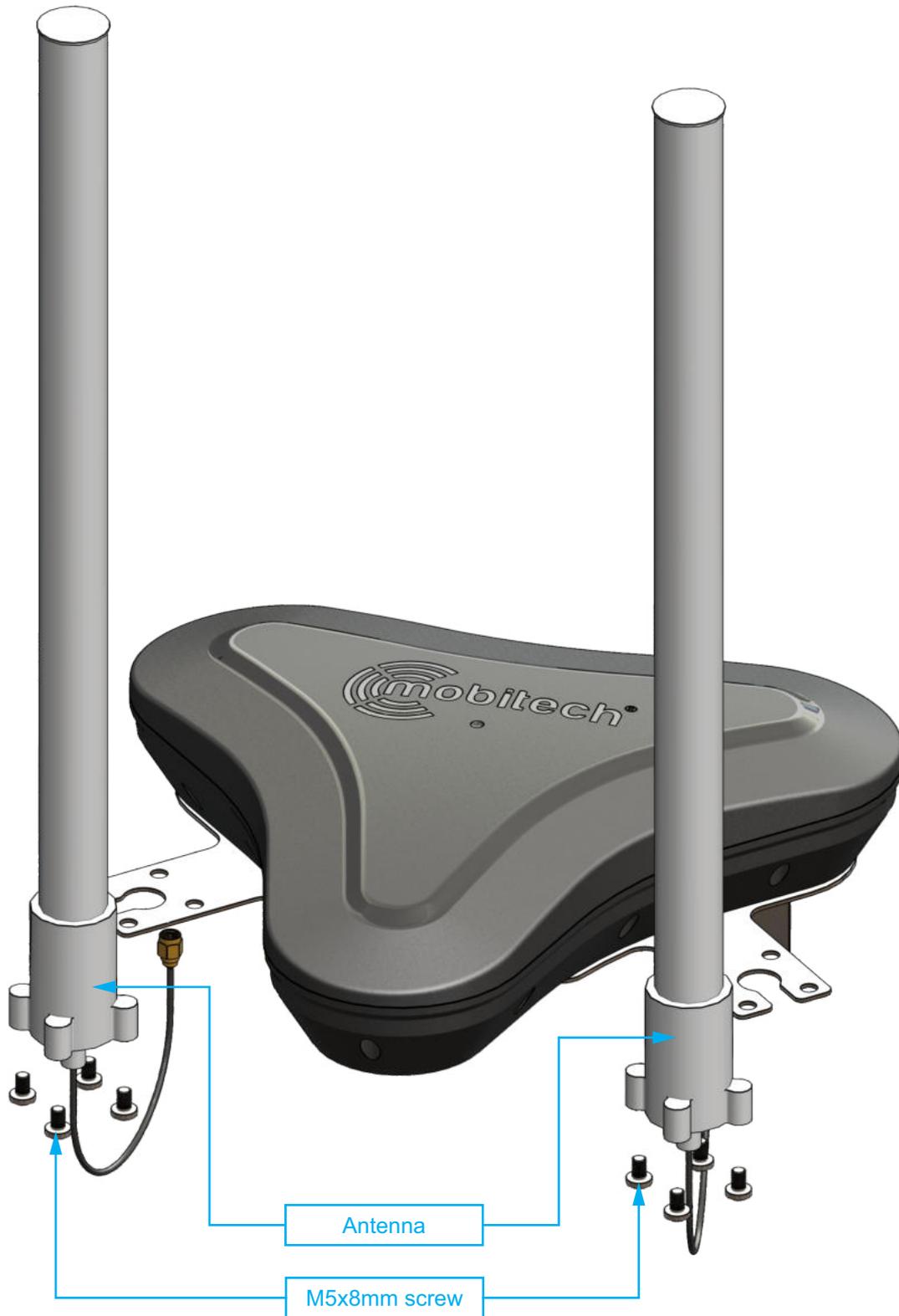
- Place the mounting plate with M4 screws at marked positions.





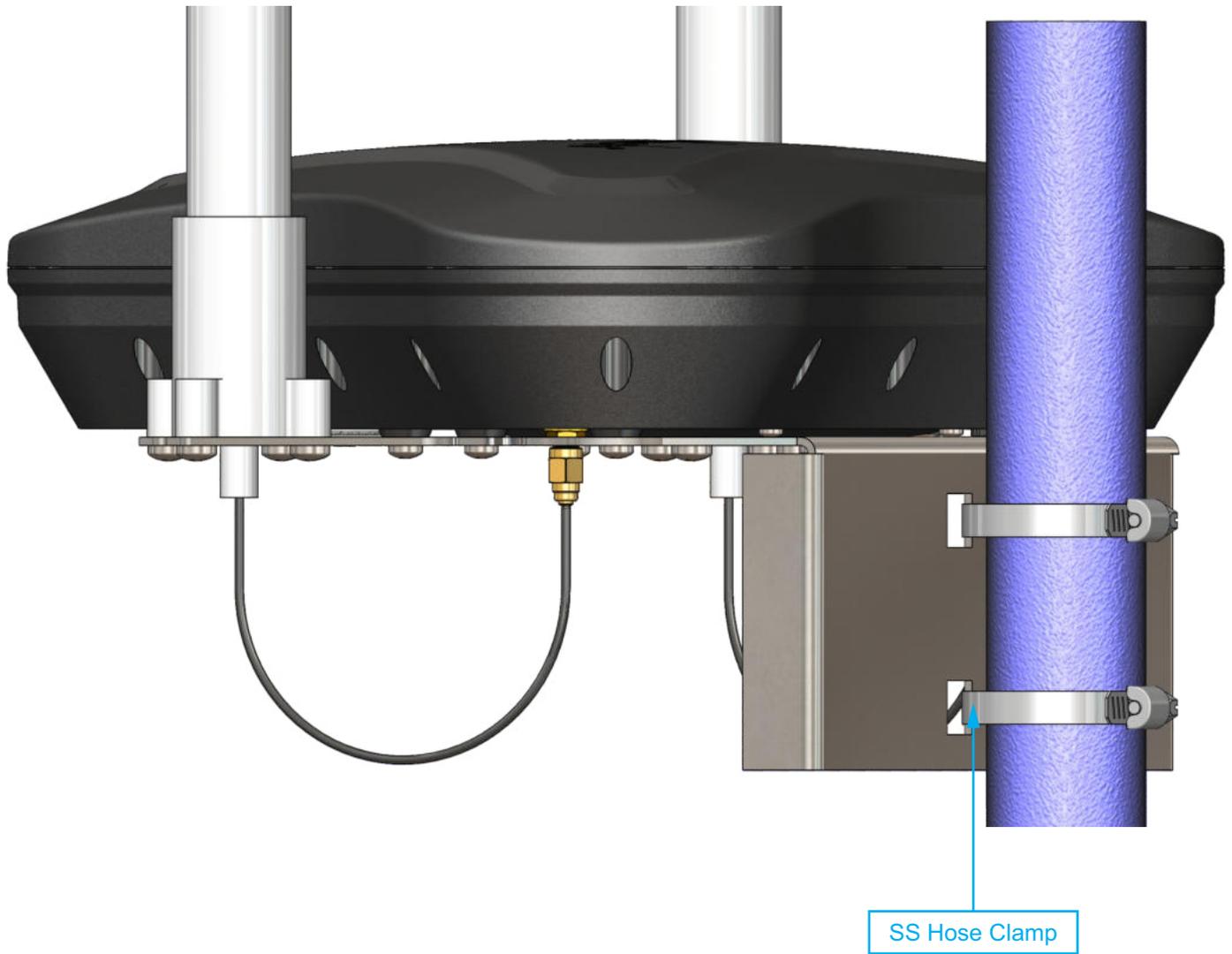
**Antenna Assembly:**

- Place the antenna on the mounting plate with M5 screws at marked positions.



**Pole Assembly:**

- Place the enclosure assembly on the pole at the height as per instructions.
- Pole mounting with Hose Clamp.

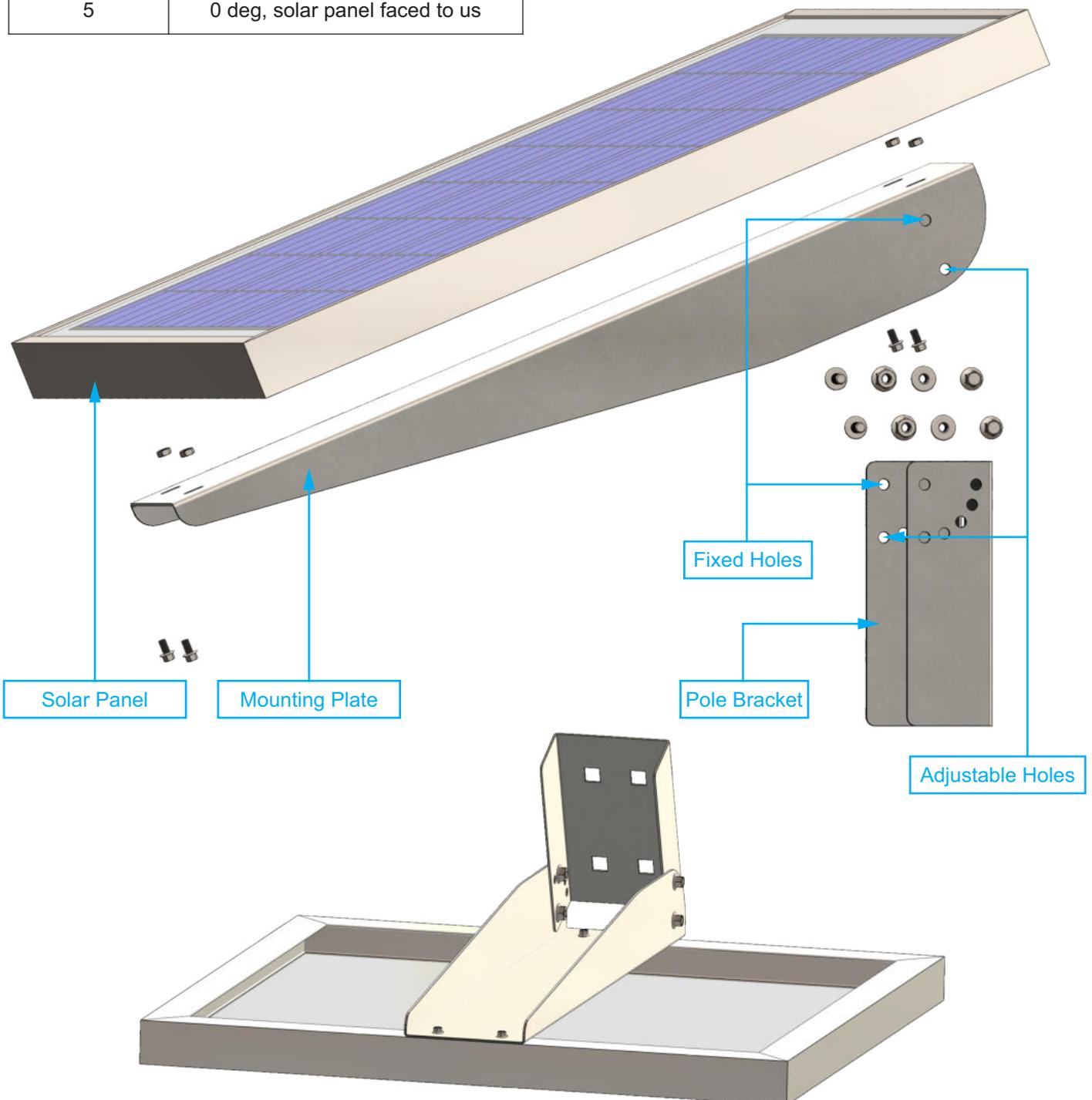




**Pole Assembly:**

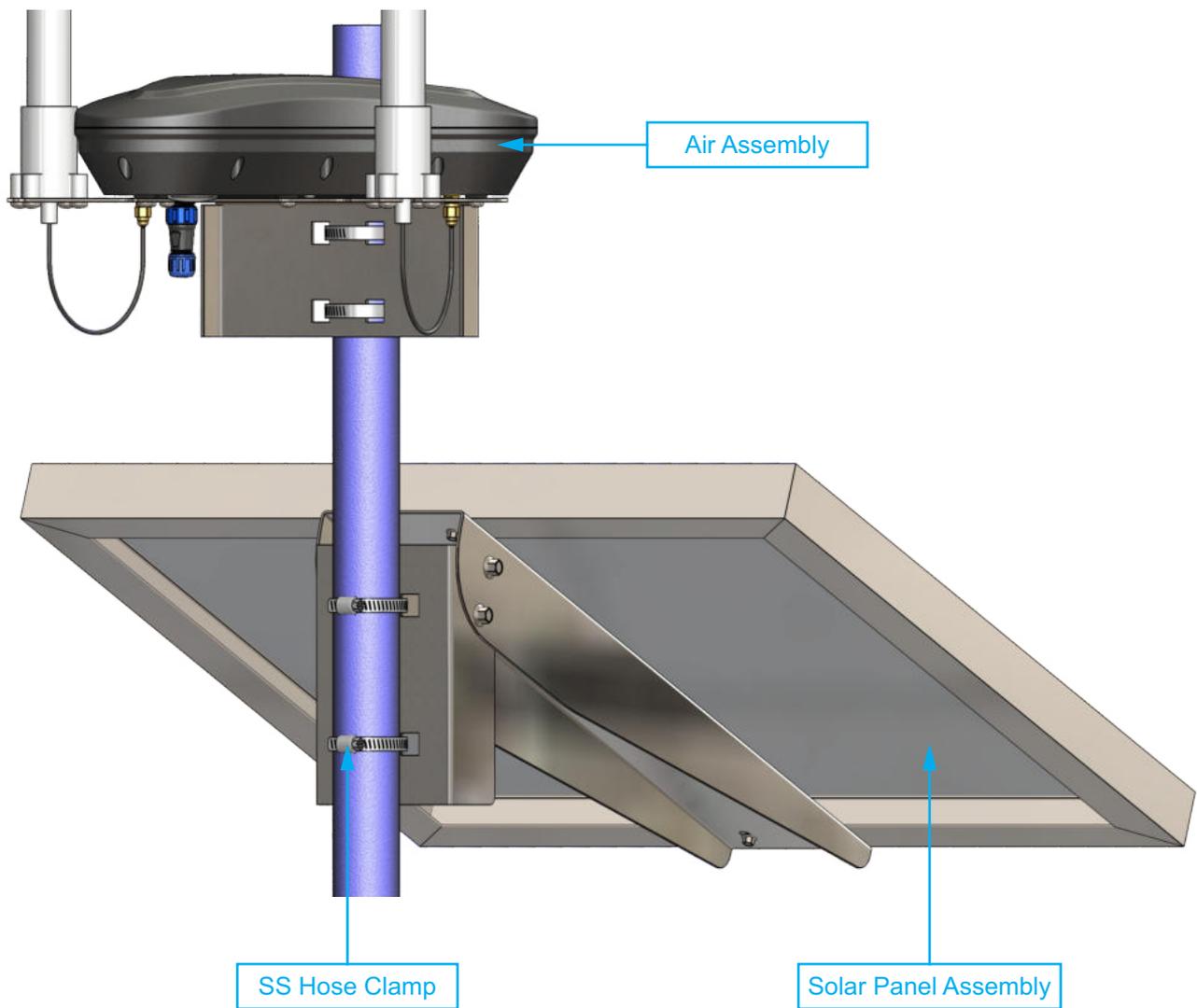
- Solar panel assembled with mounting plate with M4 bolt and nut.
- After assemble mounting plate, assemble pole bracket with M6 bolt and nut.
- Solar panel angle adjustments through holes in the pole bracket.

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:

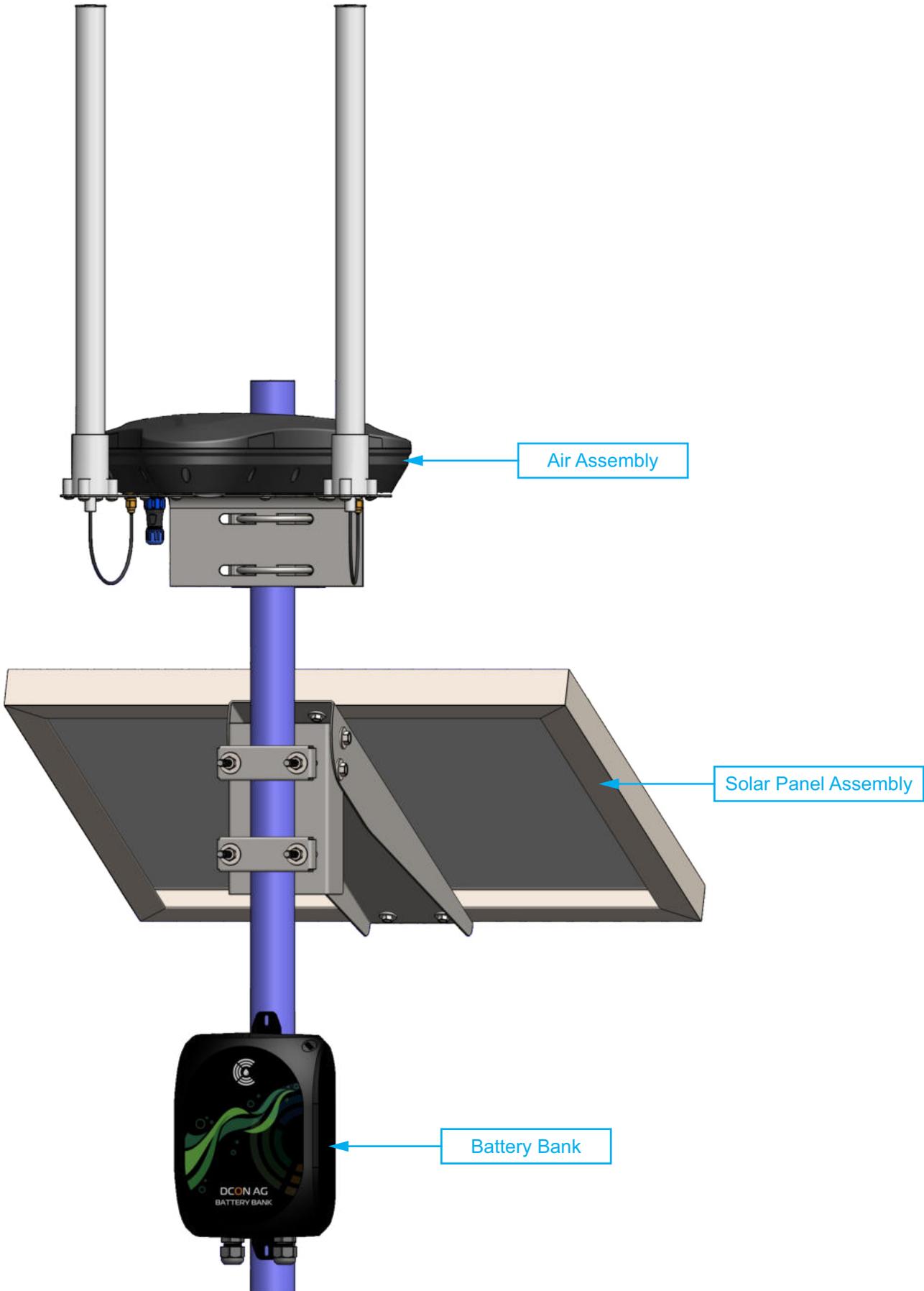
- Install solar panel on the same pole at shadow free position.
- Place the enclosure assembly on the pole at the height as per instructions.
- Pole mounting with hose clamp.





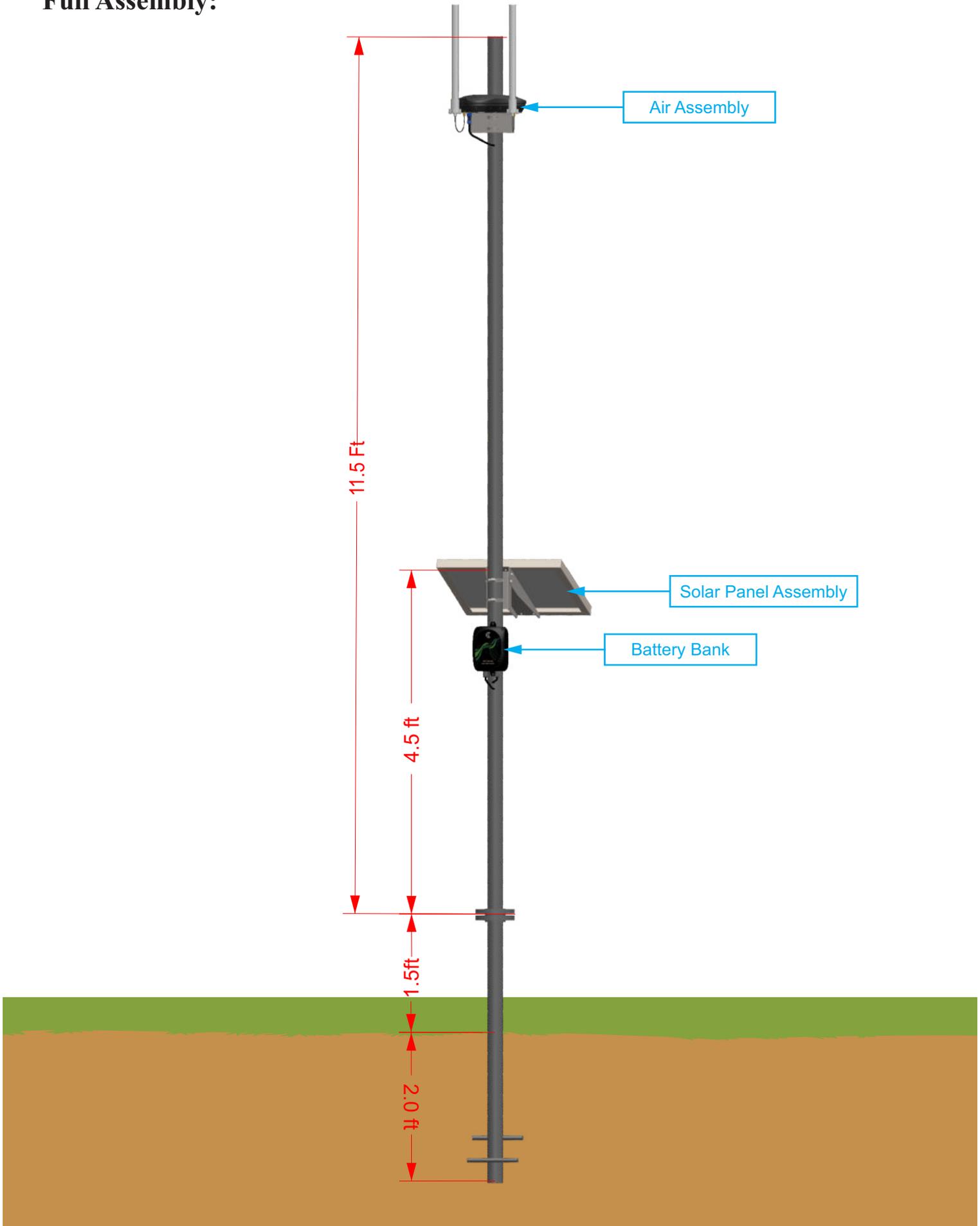
**Battery Bank Assembly:**

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



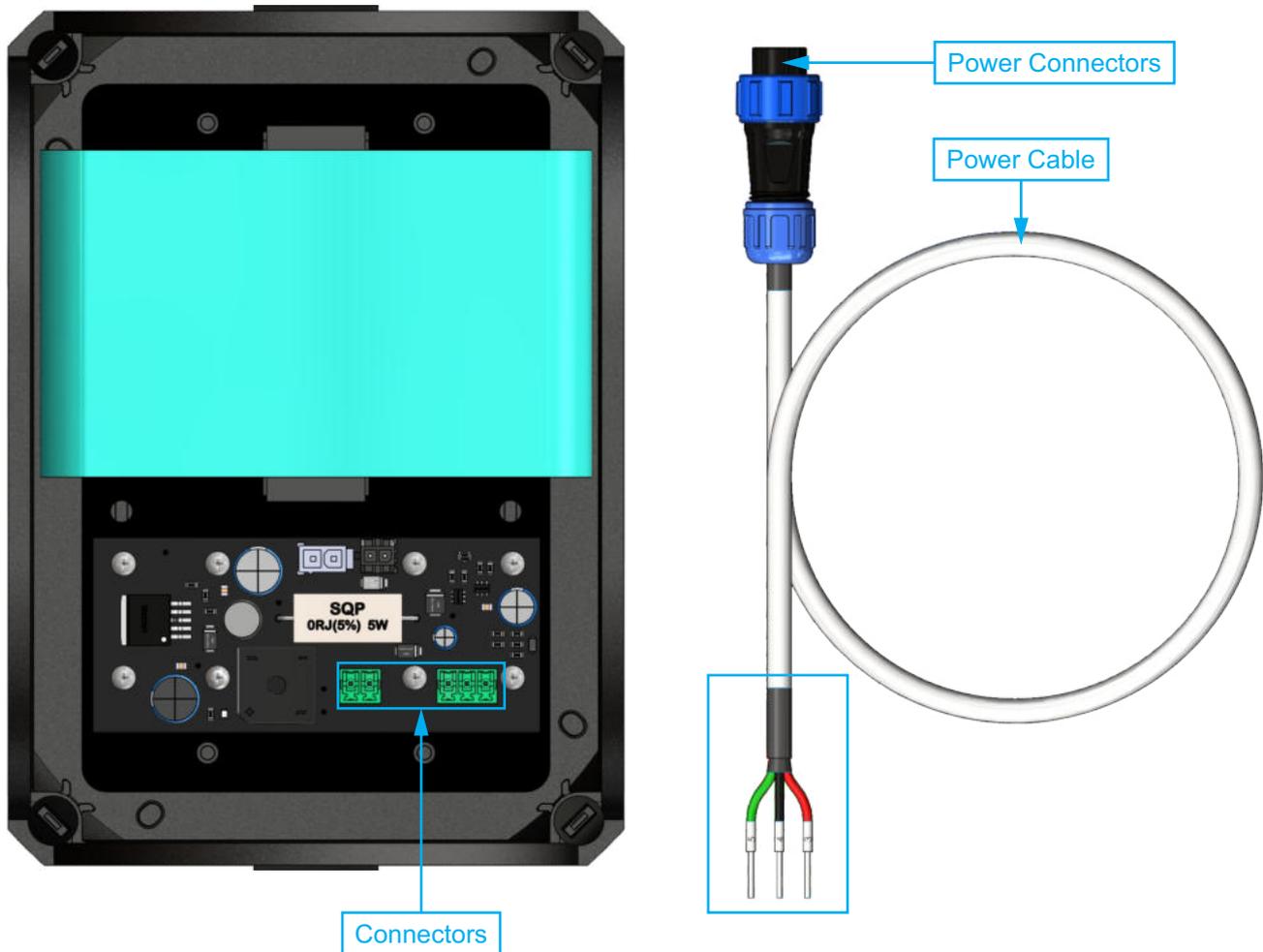


**Full Assembly:**



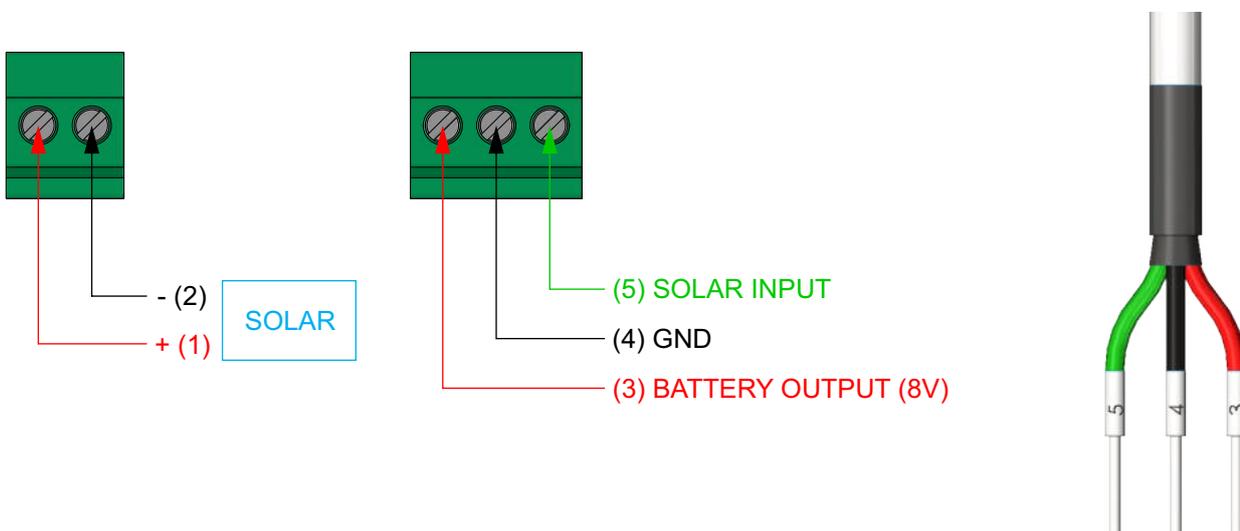
### Battery Bank Wiring:

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



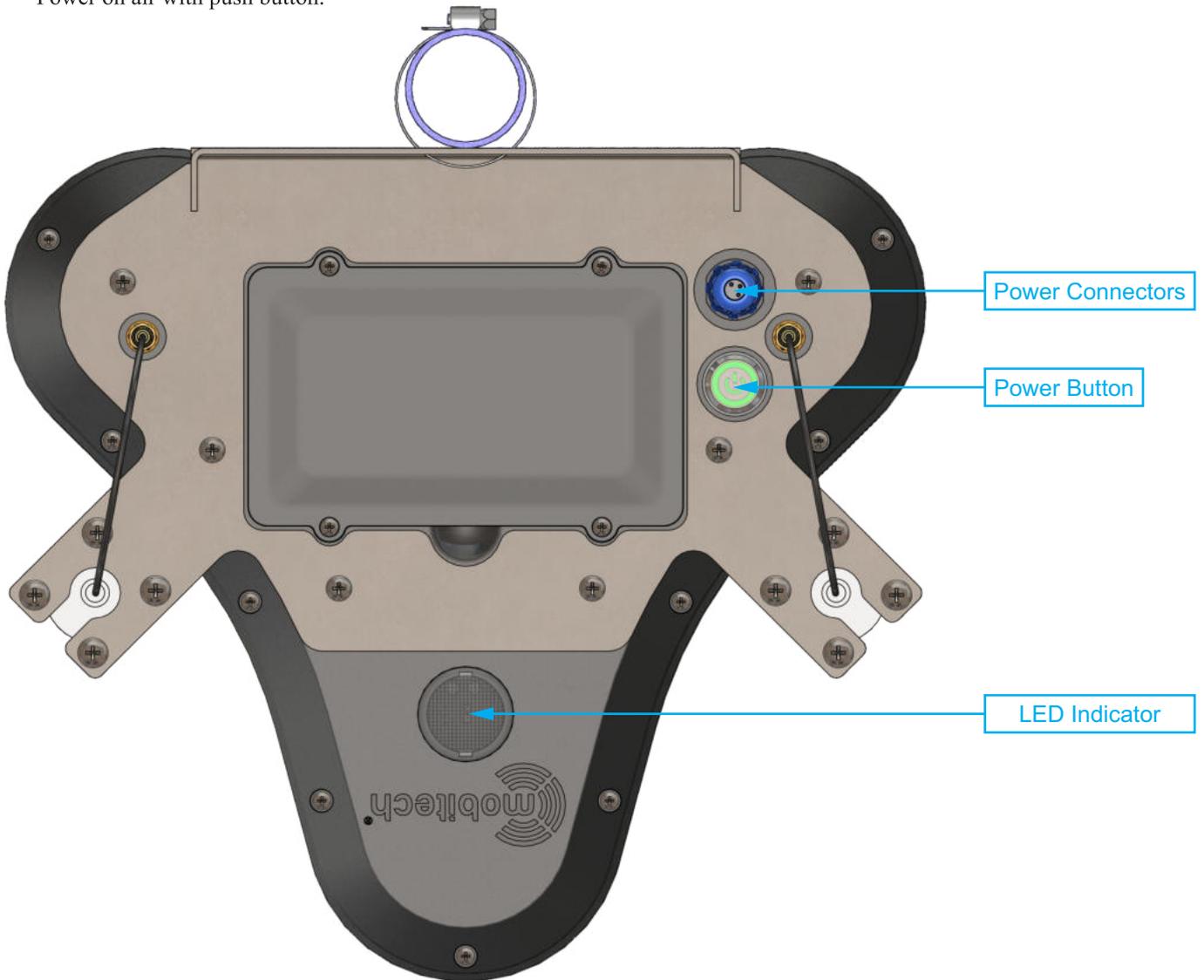
### Battery Bank Wiring:

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



**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
<b>WITH BATTERY BANK</b>			
Green	1	1 sec	Network not connected
Green	1	5 sec	Network connected
Green	2	5 sec	GPRS connected
<b>WITHOUT BATTERY BANK</b>			
Red	1	1 sec	Network not connected
Red	1	5 sec	Network connected
Red	2	5 sec	GPRS connected