



Ammonia Corrosion Resistant

The “barnyard” problem

Component Degradation:

Ammonia vapor combined with high humidity attacks metallic frames (like anodized aluminum) and degrades plastics, protective coatings, and the module's back sheet or junction box

Failure Prevention:

Severe exposure can cause delamination, electrical insulation failure, or separation of the junction box

TCL Solar and SunPower panels are tested Under IEC 62716:2013

20 days

6.667 ppm

<5%

Integrity

Safety

Exposure

Cycle to ammonia NH_3

Ammonia

concentration

Power loss

Structural

integrity

Electrical

safety

Ideal for...

Agricultural Facilities:

Rooftop or ground-mounted solar arrays on or near livestock stables, barns, and animal housing (e.g., dairy or pig farms) where high concentrations of ammonia from animal waste accumulate

Greenhouses:

Installations utilizing fertilizers or animal manure that release ammonia gas into humid indoor or semi-closed microclimate

Industrial Sites:

Areas downwind or in close proximity to chemical plants, fertilizer production, or intensive organic waste processing

TCL Solar panels are certified for installation on agriculture facilities, greenhouses or industrial sites where high concentrations of ammonia accumulate