Table S1 Data Collection Station Equipment Parameters

|  |  |  |
| --- | --- | --- |
| **Device Name** | **Range** | **Measurement Accuracy** |
| PV Module Temperature Probe | -40-135℃ | ±0.2℃ (-40-70℃) |
| ±0.5℃ (71-105℃) |
| ±1℃ (72-135℃) |
| Ambient Temperature Probe | -80-60℃ | 0.266℃ |
| Irradiance Sensor | 400-1000nm | 0.2kW-2mV-1 |
| Anemometer | 0-65m/s | 0.01 or 0.001m/s |
| 0-359.9° | 1 or 0.1° |