# Data

## PV Energy Yield Data

Dataset: *tsdb\_fronius\_energy*

Time Resolution: **5 min (or 1H aggregation)**

|  |  |  |
| --- | --- | --- |
| Name | Unit | Description |
| **FromGenToConsumer** | W/h |  |
| FromGenToGrid | W/h |  |
| **FromGridToConsumer** | W/h |  |
|  |  |  |

Dataset: *tsdb\_fronius\_inverter*

Time Resolution: **5 min (or 1H aggregation)**

|  |  |  |
| --- | --- | --- |
| Name | Unit | Description |
| IACMeanL1 | A | AC Mean Current phase 1 |
| IACMeanL2 | A | .. |
| IACMeanL3 | A | .. |
| IDCMean | A | DC Mean Current phase |
| UDCMean | V |  |
| UACMeanL1 | V |  |
| UACMeanL2 | V |  |
| UACMeanL3 | V |  |
| **MPPEnergy1** | W/h |  |
| **MPPEnergy2** | W/h |  |
| IDCMean2 | A |  |
| UDCMean2 | A |  |

## Satellite Data Historical

*Dataset: tsdb\_cams*

Time Resolution: **1H**

|  |  |  |
| --- | --- | --- |
| Name | Unit | Info |
| Observation period | Datetime |  |
| TOA | Wh/m2 | Irradiation on horizontal plane at the top of atmosphere |
| Clear sky GHI | Wh/m2 | Clear sky global irradiation on horizontal plane at ground level |
| Clear sky BHI | Wh/m2 | Clear sky beam irradiation on horizontal plane at ground level |
| Clear sky DHI | Wh/m2 | Clear sky diffuse irradiation on horizontal plane at ground level |
| Clear sky BNI | Wh/m2 | Clear sky beam irradiation on mobile plane following the sun at normal incidence |
| **GHI** | Wh/m2 | Global irradiation on horizontal plane at ground level |
| **BHI** | Wh/m2 | Beam irradiation on horizontal plane at ground level |
| **DHI** | Wh/m2 | Diffuse irradiation on horizontal plane at ground level |
| Reliability |  | Proportion of reliable data in the summarization (0-1) |

Dataset: *tsdb\_merra*

Time Resolution: **1H**

|  |  |  |
| --- | --- | --- |
| Name | Unit | Info |
| **Temperature** | K | Temperature at 2 m above ground |
| Relative humidity | % | Relative humidity at 2 m above ground |
| Pressure | hPa | Pressure at ground level |
| Wind speed | m/s | Wind speed at 10 m above ground |
| Wind direction | deg | Wind direction at 10 m above ground |
| Rainfall | kg/m2 | Rainfall (= rain depth in mm) |
| Snowfall | kg/m2 |  |
| Snow depth | m |  |