High-Resolution Floating Solar PV Data Report

Dataset Description

This dataset contains over two years of 1-minute resolution data collected from four floating solar sites, as well as data from a land-based PV system co-located with one of the floating sites. The dataset includes highly granular module temperature measurements - five modules per floating site, with three sensors per module, totaling 15 module temperature sensors per floating site. In addition to the module temperature data, meteorological data collected at the floating sites is also included, along with traditional PV system-level parameters. The data is intended for analysis of solar energy production, efficiency, and performance degradation over time.

In this report, the FPV Windsor CA (code FSW) is used. This dataset spans from 10/1/2022 to 3/15/2024.

Important Parameters

FPV Epp Horizontal irradiance (W/m^2)
 FPV RT1 POA irradiance (W/m^2)
 LPV Epp POA irradiance (W/m^2)
 LPAIRR

Plane-of-array (POA) irradiance is needed for calculating how much sunlight actually reaches the panels; horizontal irradiance helps validate sensor calibration and can be used if POA data is missing.

FPV DAS Panel Temp (°C)
 RT1 Add'l Panel Temp (°C)
 FPNLTC

• NW A/B/C Panel Temp (°C), North A/B/C Panel Temp (°C) NWPTMA, NWPTMB, NWPTMC

NOPTMA, NOPTMB, NOPTMC

MDPTMA, MDPTMB, MDPTMC

• NE A/B/C Panel Temp (°C), Middle A/B/C Panel Temp (°C) NEPTMA, NEPTMB, NEPTMC

• South A/B/C Panel Temp (°C) SOPTMA, SOPTMB, SOPTMC

Module temperature directly impacts panel efficiency (temperature coefficient); having multiple sensors across the array lets you spot hotspots or uneven aging.

•	FPV DryBulb Temp (°C)	FPVDBT
•	LPV Vaisala DryBulb Temp (°C)	LPVDBT
•	FPV Relative Humidity (%)	FPV_RH
•	FPV Wind Speed Avg (m/s)	FWINDA

Ambient temperature and wind speed let you correct for thermal losses; humidity (and pressure) can affect soiling and spectral losses but is secondary.

•	Inverter AC Power Output (kW)	INVACP
•	Inverter DC Energy Output (kWh)	INVACE
•	Inverter DC Current (Amps)	INVDCI

[&]quot;Ground truth" for energy yield: instantaneous power, cumulative energy, and DC input current into the inverter. (note, data points in these 3 parameters are all sentinel values, DO NOT USE THIS)

FPV DAS Battery Volts
 LPV DAS Battery Volts
 FSTEMP

For analyzing the efficiency or health of data-acquisition power system (upkeep and maintenance).

Parameter Table Index

FSBATT	FPV DAS Battery Volts
FSTEMP	FPV DAS Panel Temp C
NWPTMA	NW A PANEL TEMP C
NWPTMB	NW B PANEL TEMP C
NWPTMC	NW C PANEL TEMP C
NOPTMA	North A PANEL TEMP C
NOPTMB	North B PANEL TEMP C
NOPTMC	North C PANEL TEMP C
NEPTMA	NE A PANEL TEMP C
NEPTMB	NE B PANEL TEMP C
NEPTMC	NE C PANEL TEMP C
MDPTMA	Middle A PANEL TEMP C
MDPTMB	Middle B PANEL TEMP C
MDPTMC	Middle C PANEL TEMP C
SOPTMA	South A PANEL TEMP C
SOPTMB	South B PANEL TEMP C
SOPTMC	South C PANEL TEMP C
FHZIRR	FPV Epp Horiz Irradiance W/m2
FPAIRR	FPV RT1 POA Irradiance W/m2
FPNLTC	RT1 Add'l PANEL TEMP C
WTM1_0	WATER TEMP 1.0ft C

WTM275 WATER TEMP 2.75ft C WTM4_5 WATER TEMP 4.5ft C FPVDBT FPV DryBulb Temp C FPV_RH FPV Relative Humidity % FRAIRP FPV Relative Air Pressure hPa FWINDA FPV Wind Speed Avg m/s FWINDM FPV Wind Speed Max m/s FWINDV FPV Wind Direction vct Deg FRSRVD FPV WS601 Wx Stn Reserved Chan FPRECT FPV Precipitation Type FPRECI FPV Precipitation Intensity mm/h FDPTMP FPV Dew Point Temp C FWCTMP FPV Wind Speed Actual m/s FWNDAC FPV Wind Speed Actual m/s FWNDMN FPV Wind Speed Winimum m/s FWNDMN FPV Wind Speed Vector m/s FPVWBT FPV Wet Bulb Temp C FWDIRA FPV Wind Direction Act Deg FWDIRX FPV Wind Direction Max Deg FENTHP FPV Specific Enthalpy kJ/kg LSBATT LPV DAS Battery Volts LSTEMP LPV DAS Panel Temp C LPV_RH LPV Vaisala DryBulb Temp C LPV_RH LPV Vaisala Bkup DryBulb Temp C LPV_RH LPV Vaisala bkup DryBulb Temp C LPV_RH LPV Vaisala bkup Relative Humidity % LPVDB2 LPV Vaisala bkup Relative Humidity % LPVDB4 LPV Wind Speed Avg m/s LPAIRR LPV Epp POA Irradiance W/m2 INVACP Inverter DC Current (Amps)		
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FPV_RH FPV Relative Humidity % FRAIRP FPV Relative Air Pressure hPa FWINDA FPV Wind Speed Avg m/s FWINDM FPV Wind Speed Max m/s FWINDV FPV Wind Direction vct Deg FRSRVD FPV WS601 Wx Stn Reserved Chan FPRECT FPV Precipitation Type FPRECI FPV Precipitation Intensity mm/h FDPTMP FPV Dew Point Temp C FWCTMP FPV Wind Chill Temp C FPRECD FPV Precipitation Diff mm FWNDAC FPV Wind Speed Actual m/s FWNDMN FPV Wind Speed Minimum m/s FWNDVT FPV Wind Speed Vector m/s FPVWBT FPV Wet Bulb Temp C FWDIRA FPV Wind Direction Act Deg FWDIRN FPV Wind Direction Min Deg FWDIRX FPV Wind Direction Max Deg FENTHP FPV Specific Enthalpy kJ/kg LSBATT LPV DAS Battery Volts LSTEMP LPV Vaisala DryBulb Temp C LPV_RH LPV Vaisala Relative Humidity % LPVDB2 LPV Vaisala bkup DryBulb Temp C LPVRH2 LPV Vaisala bkup Relative Humidity % LWINDA LPV Wind Speed Avg m/s LPAIRR LPV Epp POA Irradiance W/m2 INVACP Inverter AC Power Output (kWh) INVACE Inverter DC Energy Output (kWh)	WTM4_5	WATER TEMP 4.5ft C
FRAIRP FPV Relative Air Pressure hPa FWINDA FPV Wind Speed Avg m/s FWINDM FPV Wind Speed Max m/s FWINDV FPV Wind Direction vct Deg FRSRVD FPV WS601 Wx Stn Reserved Chan FPRECT FPV Precipitation Intensity mm/h FDPTMP FPV Dew Point Temp C FWCTMP FPV Wind Chill Temp C FPRECD FPV Precipitation Diff mm FWNDAC FPV Wind Speed Actual m/s FWNDMN FPV Wind Speed Minimum m/s FWNDVT FPV Wind Speed Vector m/s FPVWBT FPV Wet Bulb Temp C FWDIRA FPV Wind Direction Act Deg FWDIRX FPV Wind Direction Max Deg FENTHP FPV Specific Enthalpy kJ/kg LSBATT LPV DAS Battery Volts LSTEMP LPV DAS Panel Temp C LPVDBT LPV Vaisala DryBulb Temp C LPV_RH LPV Vaisala Relative Humidity % LPVDB2 LPV Vaisala bkup DryBulb Temp C LPVRH2 LPV Vaisala bkup Relative Humidity % LPVRH2 LPV Wind Speed Avg m/s LPAIRR LPV Epp POA Irradiance W/m2 INVACP Inverter AC Power Output (kWh) INVACE Inverter DC Energy Output (kWh)	FPVDBT	FPV DryBulb Temp C
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INVACP Inverter AC Power Output (kW) INVACE Inverter DC Energy Output (kWh)	LWINDA	LPV Wind Speed Avg m/s
INVACE Inverter DC Energy Output (kWh)	LPAIRR	LPV Epp POA Irradiance W/m2
	INVACP	Inverter AC Power Output (kW)
INVDCI Inverter DC Current (Amps)	INVACE	Inverter DC Energy Output (kWh)
	INVDCI	Inverter DC Current (Amps)