



## Trend Summary Report

Report start	5/1/2026 12:15:00 PM
Report end	5/11/2026 6:30:00 AM
Report duration	9 days, 18:15:00 (h:min:s)
Instrument ID	PEL113 107349AAH

Database File Name: EQHB.dvb

Operator

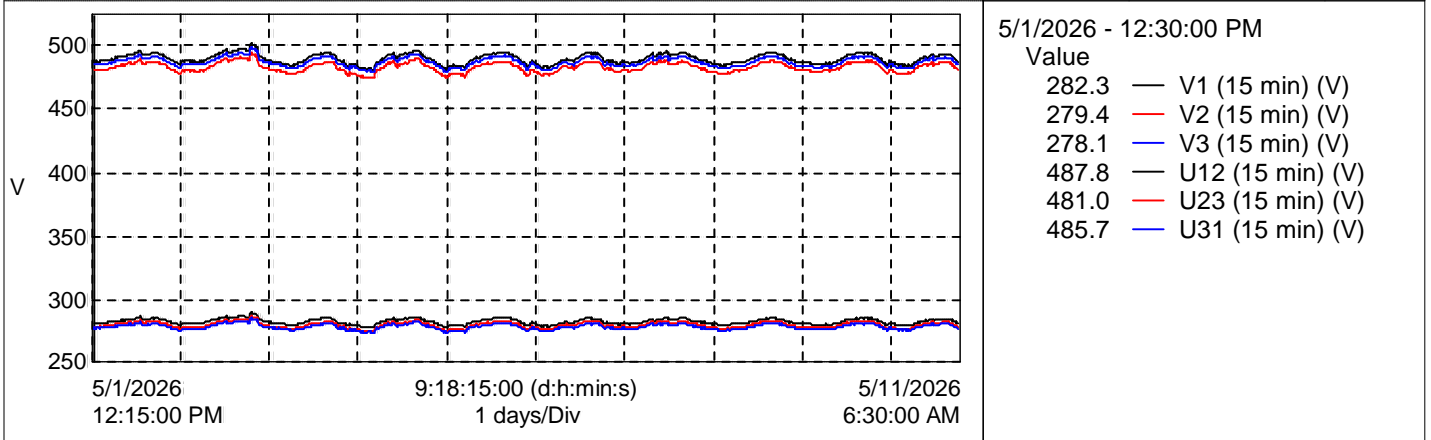
Test Site

Comments

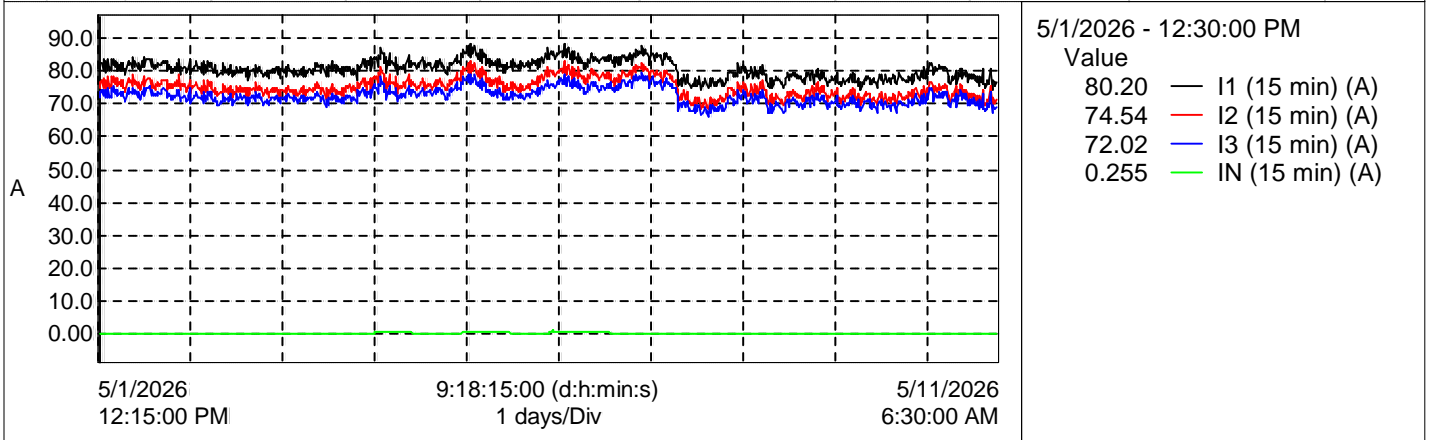
Table of Contents	
Coversheet	1
Table of Contents	2
V (V) - I (A) - P (W)	3
Phase-to-Neutral Voltage RMS	4
Phase-to-Phase Voltage RMS	5
Current RMS	6
Power Factor	7
Active Power P (kW)	8
Apparent Power S (kVA)	9
Reactive Power Q (kvar)	10
Active Energy Ep (kWh)	11
Apparent Energy Es (kVAh)	12
Reactive Energy Eq (kvarh)	13
F (Hz)	14
CF	15
Cos $\varphi$ (DPF)	16
Tan $\Phi$	17
Phase-to-Neutral Total Harmonic Distortion	18
Phase-to-Phase Total Harmonic Distortion	19
Current Total Harmonic Distortion	20
Events	21
Total energies and costs	22
MAX	23
Configuration	24
Glossary	25

V (V) - I (A) - P (W)

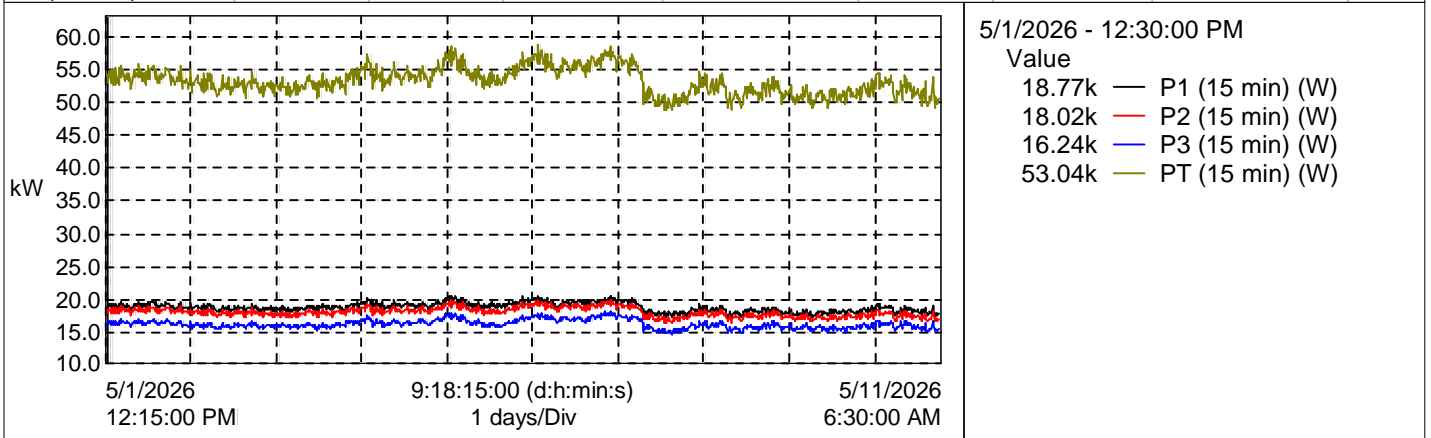
Name	AVG	MIN	MIN date	MIN time	MAX	MAX date	MAX time	Units
U12 (15 min)	489.6	480.8	5/4/2026	4:30:00 PM	501.8	5/3/2026	7:00:00 AM	V
U23 (15 min)	483.0	474.3	5/4/2026	4:30:00 PM	494.3	5/3/2026	7:00:00 AM	V
U31 (15 min)	487.0	479.2	5/4/2026	4:30:00 PM	498.6	5/3/2026	7:00:00 AM	V
V1 (15 min)	283.1	278.4	5/4/2026	4:30:00 PM	290.1	5/3/2026	7:00:00 AM	V



Name	AVG	MIN	MIN date	MIN time	MAX	MAX date	MAX time	Units
I1 (15 min)	80.60	74.38	5/11/2026	5:30:00 AM	88.15	5/6/2026	1:45:00 PM	A
I2 (15 min)	75.07	68.20	5/8/2026	3:30:00 AM	83.18	5/6/2026	1:45:00 PM	A
I3 (15 min)	72.44	66.20	5/8/2026	3:30:00 AM	79.52	5/7/2026	10:00:00 AM	A
IN (15 min)	369m	215m	5/8/2026	1:30:00 AM	1.071	5/6/2026	10:45:00 AM	A

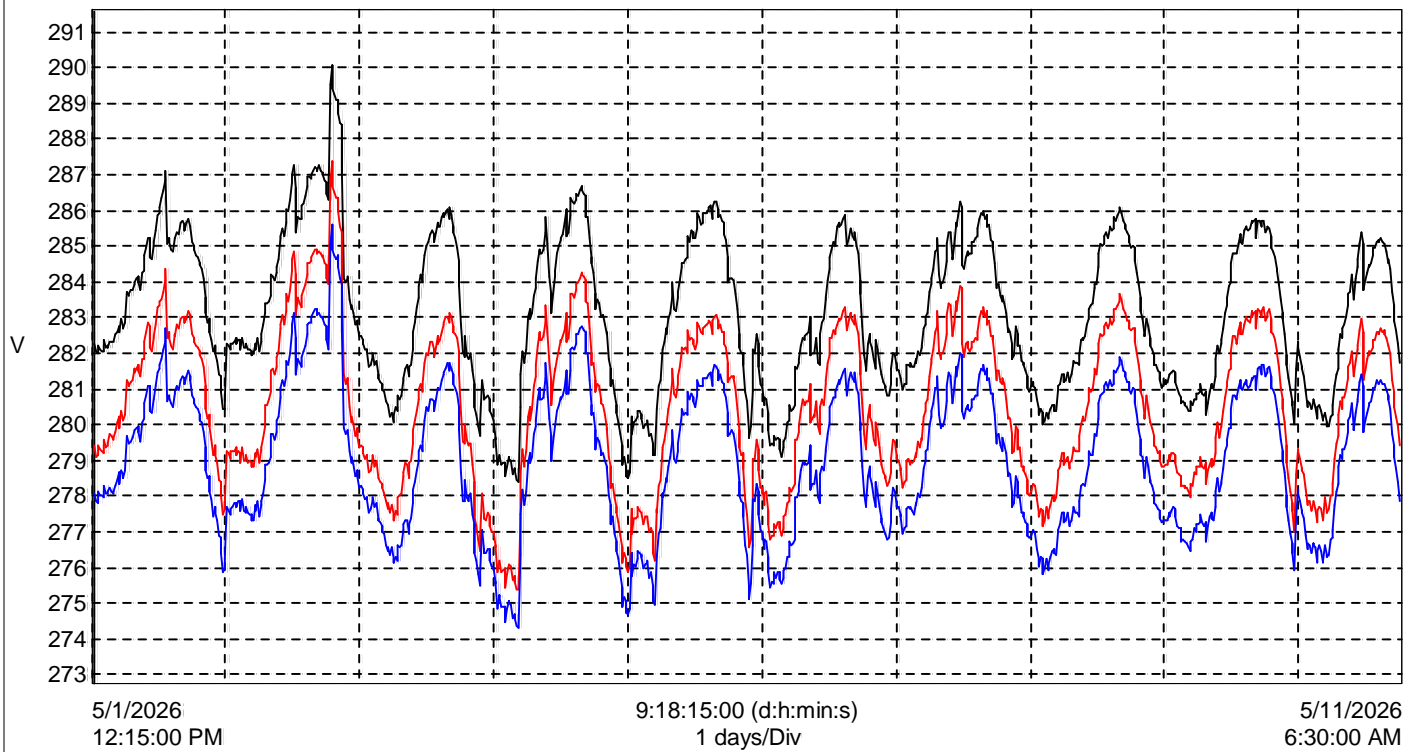


Name	AVG	MIN	MIN date	MIN time	MAX	MAX date	MAX time	Units
P1 (15 min)	18.82	17.26	5/9/2026	7:15:00 PM	20.66	5/6/2026	1:45:00 PM	kW
P2 (15 min)	18.09	16.46	5/8/2026	1:30:00 AM	20.07	5/6/2026	1:45:00 PM	kW
P3 (15 min)	16.30	14.72	5/8/2026	3:30:00 AM	18.16	5/7/2026	10:00:00 AM	kW
PT (15 min)	53.21	48.74	5/8/2026	1:30:00 AM	58.76	5/6/2026	1:45:00 PM	kW



**Phase-to-Neutral Voltage RMS**

Name	AVG	MIN	MIN date	MIN time	MAX	MAX date	MAX time	Units
V1 (15 min)	283.1	278.4	5/4/2026	4:30:00 PM	290.1	5/3/2026	7:00:00 AM	V
V2 (15 min)	280.5	275.4	5/4/2026	4:15:00 PM	287.4	5/3/2026	7:00:00 AM	V
V3 (15 min)	279.0	274.3	5/4/2026	4:30:00 PM	285.6	5/3/2026	7:00:00 AM	V



5/1/2026 - 12:30:00 PM

Value

282.3	—	V1 (15 min) (V)
279.4	—	V2 (15 min) (V)
278.1	—	V3 (15 min) (V)

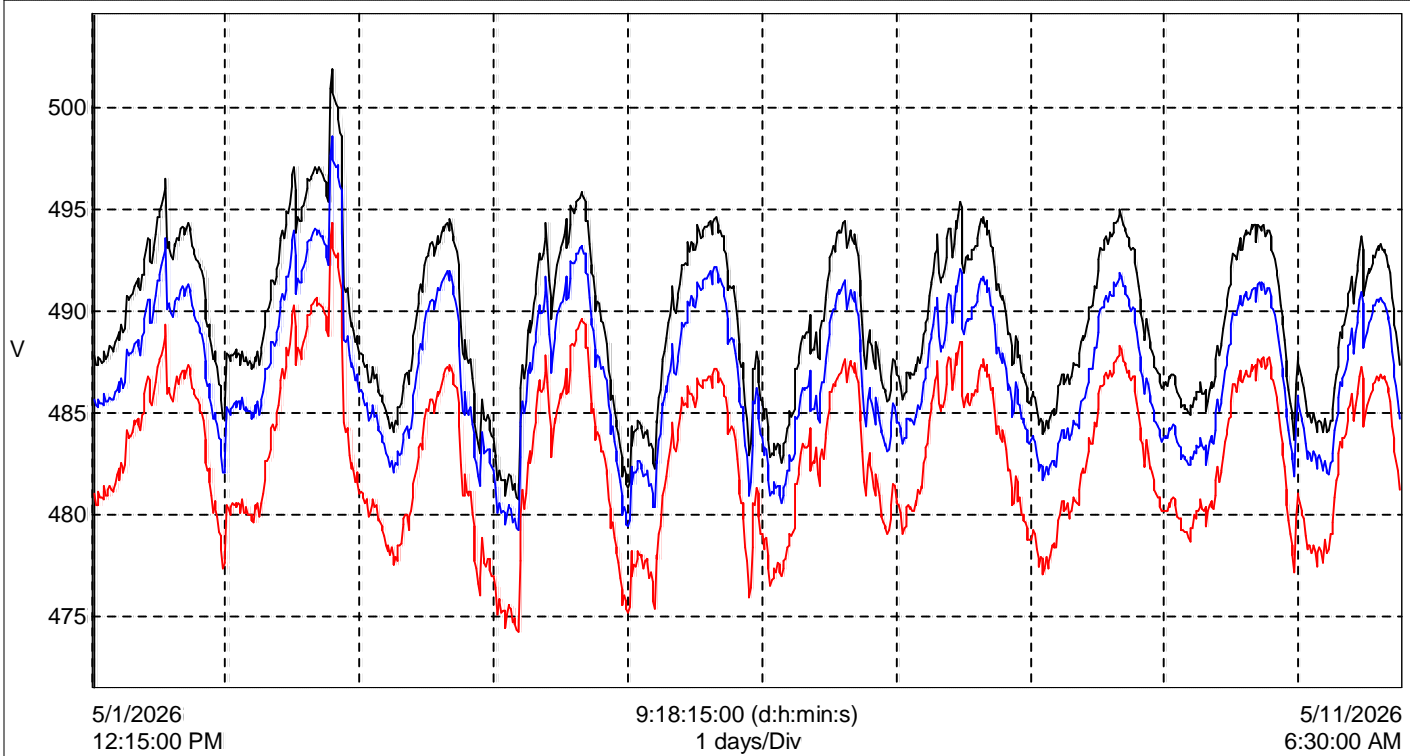
V1 (15 min) (V)			
Date	Time	Val	Units
5/1/2026	12:30:00 PM	282.3	V
5/1/2026	12:45:00 PM	282.0	V
5/1/2026	1:00:00 PM	282.0	V
5/1/2026	1:15:00 PM	282.2	V
5/1/2026	1:30:00 PM	282.1	V
5/1/2026	1:45:00 PM	282.1	V
5/1/2026	2:00:00 PM	282.1	V
5/1/2026	2:15:00 PM	282.4	V
5/1/2026	2:30:00 PM	282.2	V
5/1/2026	2:45:00 PM	282.2	V
5/1/2026	3:00:00 PM	282.2	V
5/1/2026	3:15:00 PM	282.3	V
5/1/2026	3:30:00 PM	282.3	V

**Exceptions**

Name	Date	Time	Duration	Duration Units	MIN	MAX	AVG	Units

### Phase-to-Phase Voltage RMS

Name	AVG	MIN	MIN date	MIN time	MAX	MAX date	MAX time	Units
U12 (15 min)	489.6	480.8	5/4/2026	4:30:00 PM	501.8	5/3/2026	7:00:00 AM	V
U23 (15 min)	483.0	474.3	5/4/2026	4:30:00 PM	494.3	5/3/2026	7:00:00 AM	V
U31 (15 min)	487.0	479.2	5/4/2026	4:30:00 PM	498.6	5/3/2026	7:00:00 AM	V



5/1/2026 - 12:30:00 PM

Value

- 487.8 — U12 (15 min) (V)
- 481.0 — U23 (15 min) (V)
- 485.7 — U31 (15 min) (V)

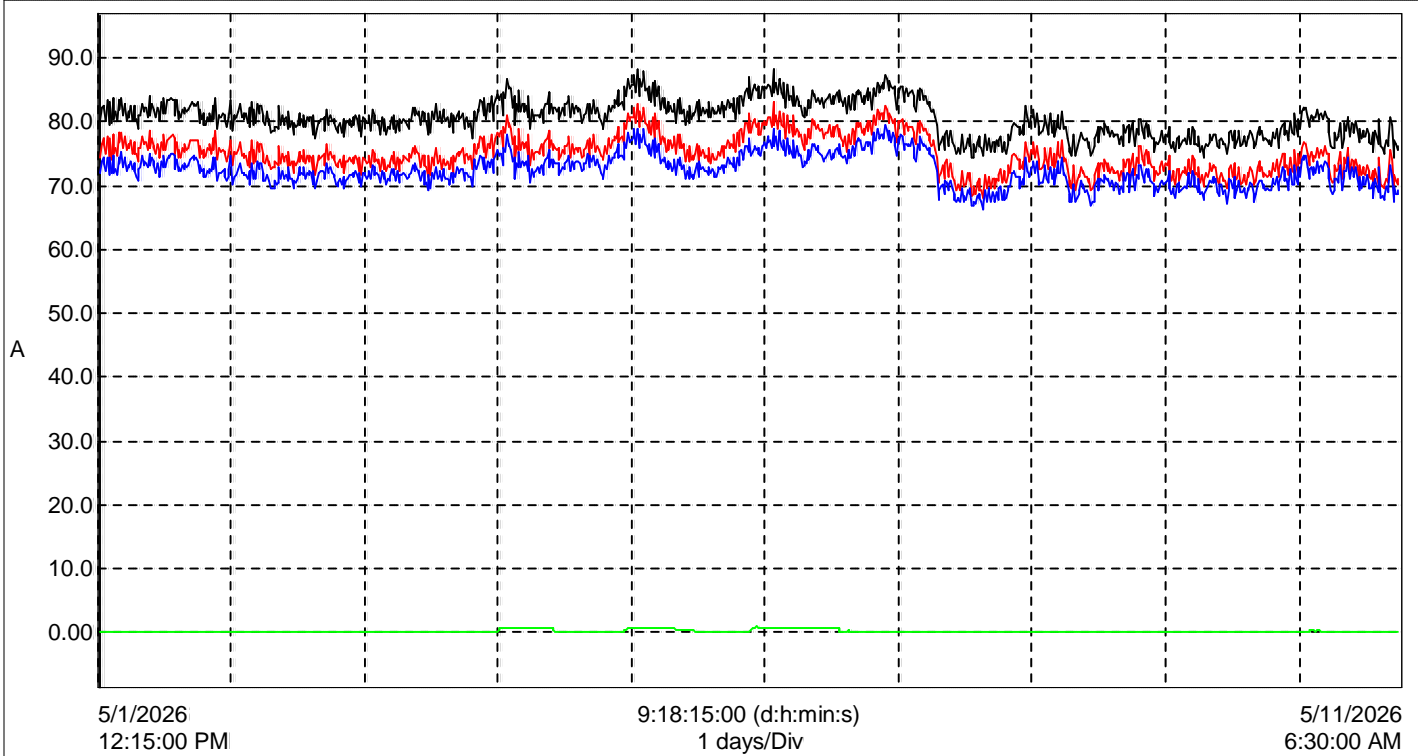
U12 (15 min) (V)			
Date	Time	Val	Units
5/1/2026	12:30:00 PM	487.8	V
5/1/2026	12:45:00 PM	487.4	V
5/1/2026	1:00:00 PM	487.4	V
5/1/2026	1:15:00 PM	487.7	V
5/1/2026	1:30:00 PM	487.6	V
5/1/2026	1:45:00 PM	487.5	V
5/1/2026	2:00:00 PM	487.5	V
5/1/2026	2:15:00 PM	488.0	V
5/1/2026	2:30:00 PM	487.7	V
5/1/2026	2:45:00 PM	487.8	V
5/1/2026	3:00:00 PM	487.8	V
5/1/2026	3:15:00 PM	488.2	V
5/1/2026	3:30:00 PM	488.2	V

#### Exceptions

Name	Date	Time	Duration	Duration Units	MIN	MAX	AVG	Units

**Current RMS**

Name	AVG	MIN	MIN date	MIN time	MAX	MAX date	MAX time	Units
I1 (15 min)	80.60	74.38	5/11/2026	5:30:00 AM	88.15	5/6/2026	1:45:00 PM	A
I2 (15 min)	75.07	68.20	5/8/2026	3:30:00 AM	83.18	5/6/2026	1:45:00 PM	A
I3 (15 min)	72.44	66.20	5/8/2026	3:30:00 AM	79.52	5/7/2026	10:00:00 AM	A
IN (15 min)	369m	215m	5/8/2026	1:30:00 AM	1.071	5/6/2026	10:45:00 AM	A



5/1/2026 - 12:30:00 PM

Value

- 80.20 — I1 (15 min) (A)
- 74.54 — I2 (15 min) (A)
- 72.02 — I3 (15 min) (A)

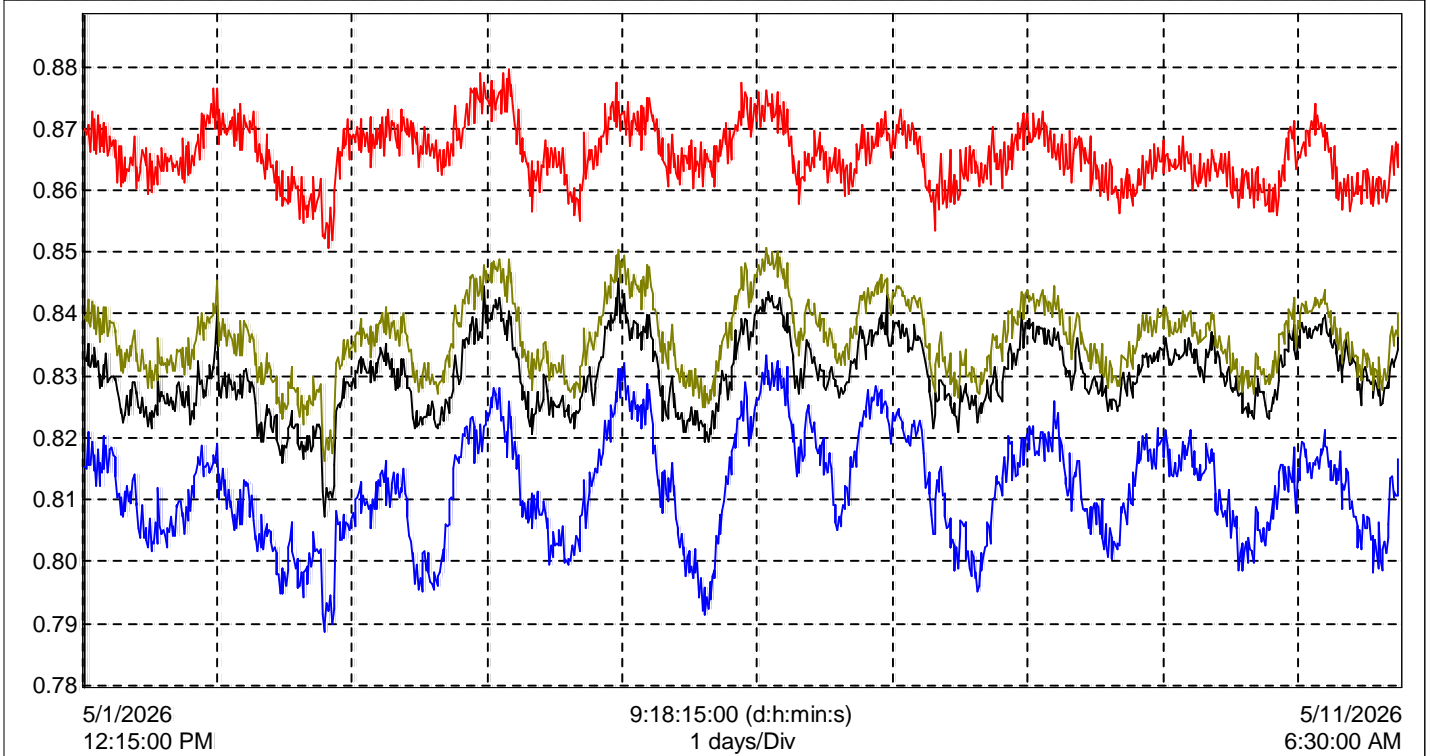
I1 (15 min) (A)			
Date	Time	Val	Units
5/1/2026	12:30:00 PM	80.20	A
5/1/2026	12:45:00 PM	82.21	A
5/1/2026	1:00:00 PM	82.54	A
5/1/2026	1:15:00 PM	82.19	A
5/1/2026	1:30:00 PM	80.20	A
5/1/2026	1:45:00 PM	83.27	A
5/1/2026	2:00:00 PM	79.64	A
5/1/2026	2:15:00 PM	83.11	A
5/1/2026	2:30:00 PM	79.83	A
5/1/2026	2:45:00 PM	83.58	A
5/1/2026	3:00:00 PM	80.30	A
5/1/2026	3:15:00 PM	81.47	A
5/1/2026	3:30:00 PM	79.97	A

**Exceptions**

Name	Date	Time	Duration	Duration Units	MIN	MAX	AVG	Units

**Power Factor**

Name	AVG	MIN	MIN date	MIN time	MAX	MAX date	MAX time	Units
PF1+ (15 min)	0.830	0.807	5/3/2026	7:00:00 AM	0.846	5/5/2026	11:30:00 AM	
PF1- (15 min)	---	NA	5/1/2026	12:30:00 PM	NA	5/1/2026	12:30:00 PM	
PF2+ (15 min)	0.866	0.851	5/3/2026	8:00:00 AM	0.880	5/4/2026	4:00:00 PM	
PF2- (15 min)	---	NA	5/1/2026	12:30:00 PM	NA	5/1/2026	12:30:00 PM	



5/1/2026 - 12:30:00 PM

Value

- X.XX — PF1- (15 min) ()
- X.XX — PF2- (15 min) ()
- X.XX — PF3- (15 min) ()

**PF1+ (15 min) ()**

Date	Time	Val
5/1/2026	12:30:00 PM	0.833
5/1/2026	12:45:00 PM	0.832
5/1/2026	1:00:00 PM	0.835
5/1/2026	1:15:00 PM	0.832
5/1/2026	1:30:00 PM	0.832
5/1/2026	1:45:00 PM	0.833
5/1/2026	2:00:00 PM	0.832
5/1/2026	2:15:00 PM	0.835
5/1/2026	2:30:00 PM	0.832
5/1/2026	2:45:00 PM	0.832
5/1/2026	3:00:00 PM	0.828
5/1/2026	3:15:00 PM	0.830
5/1/2026	3:30:00 PM	0.829

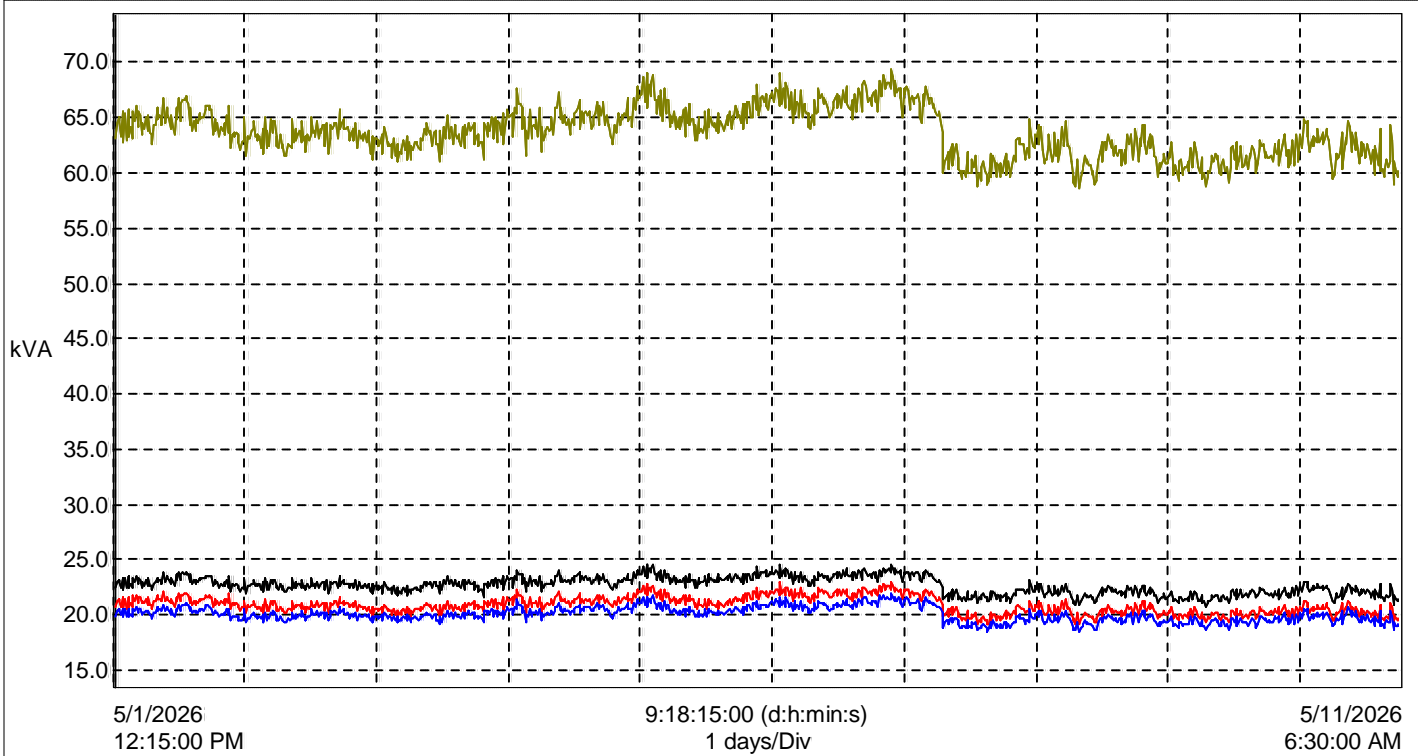
**Exceptions**

Name	Date	Time	Duration	Duration Units	MIN	MAX	AVG	Units



### Apparent Power S (kVA)

Name	AVG	MIN	MAX	Units
S1 (15 min)	22.67	20.76	24.57	kVA
S1+ (15 min)	22.67	20.76	24.57	kVA
S1- (15 min)	---	NA	NA	VA
S2 (15 min)	20.90	19.08	22.91	kVA



5/1/2026 - 12:30:00 PM

Value

- 22.54k — S1 (15 min) (VA)
- 20.72k — S2 (15 min) (VA)
- 19.93k — S3 (15 min) (VA)

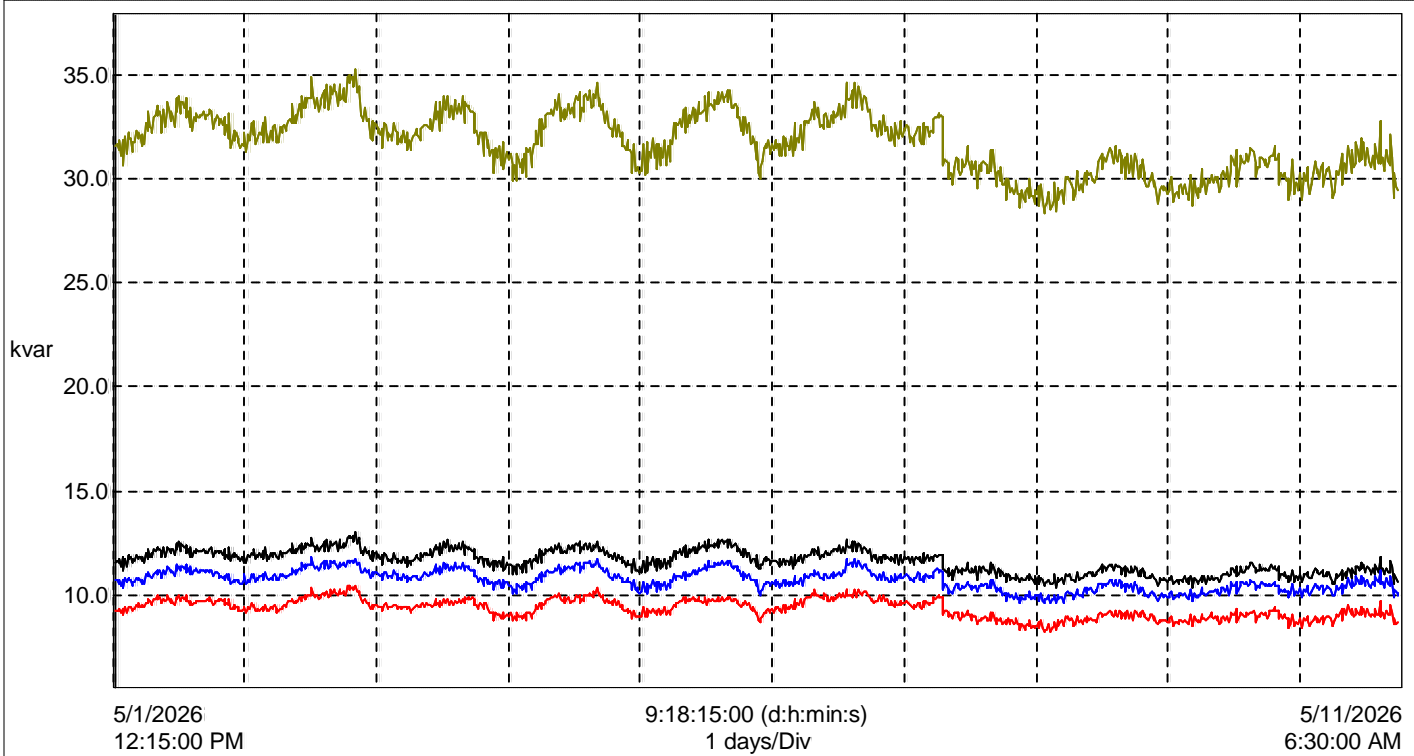
S1 (15 min) (VA)			
Date	Time	Val	Units
5/1/2026	12:30:00 PM	22.54	kVA
5/1/2026	12:45:00 PM	23.03	kVA
5/1/2026	1:00:00 PM	23.12	kVA
5/1/2026	1:15:00 PM	23.05	kVA
5/1/2026	1:30:00 PM	22.48	kVA
5/1/2026	1:45:00 PM	23.36	kVA
5/1/2026	2:00:00 PM	22.34	kVA
5/1/2026	2:15:00 PM	23.32	kVA
5/1/2026	2:30:00 PM	22.41	kVA
5/1/2026	2:45:00 PM	23.44	kVA
5/1/2026	3:00:00 PM	22.53	kVA
5/1/2026	3:15:00 PM	22.87	kVA
5/1/2026	3:30:00 PM	22.47	kVA

#### Exceptions

Name	Date	Time	Duration	Duration Units	MIN	MAX	AVG	Units

**Reactive Power Q (kvar)**

Name	AVG	MIN	MAX	Units
Q1 (15 min)	11.63	10.37	13.01	kvar
Q1+ (15 min)	11.63	10.37	13.01	kvar
Q1- (15 min)	---	NA	NA	var
Q2 (15 min)	9.364	8.270	10.44	kvar



5/1/2026 - 12:30:00 PM

Value

- 9.296k — Q2 (15 min) (var)
- 10.71k — Q3 (15 min) (var)
- 31.59k — QT (15 min) (var)

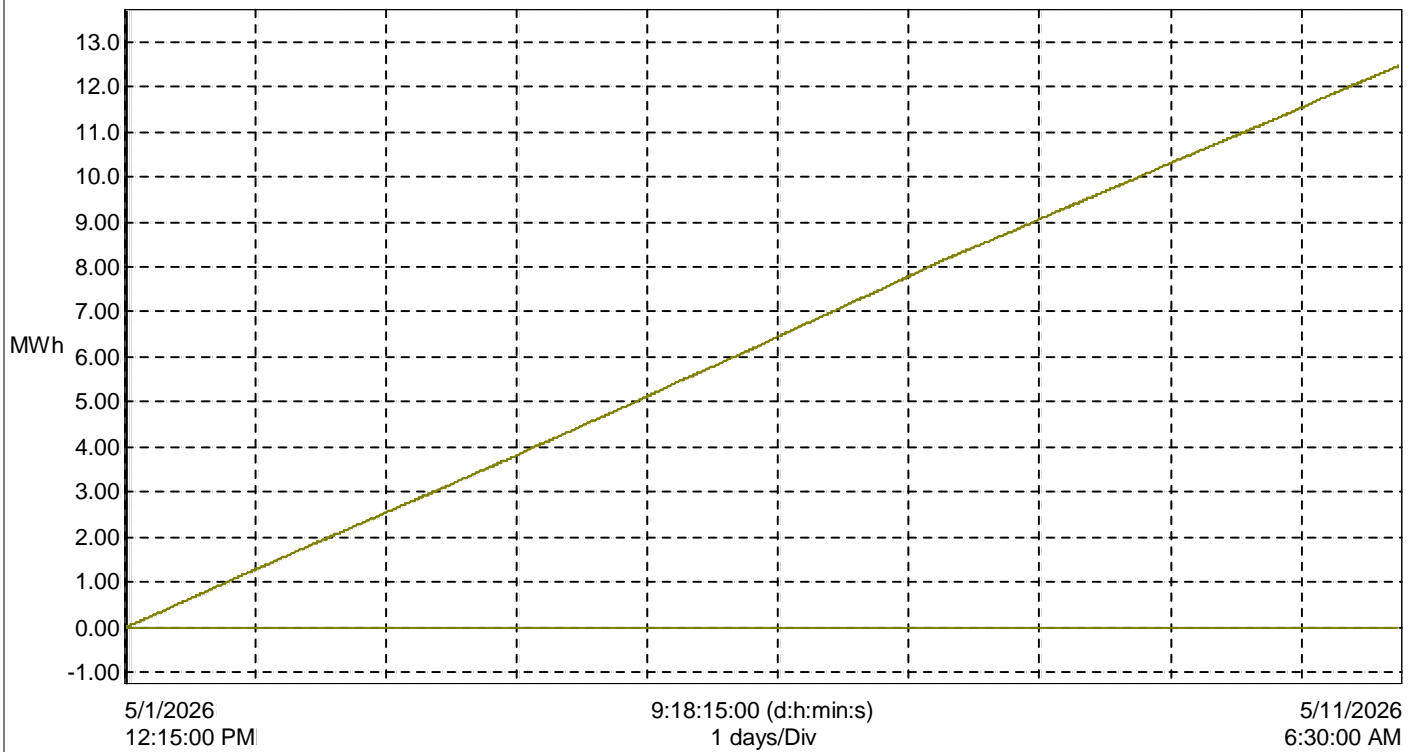
Q1 (15 min) (var)			
Date	Time	Val	Units
5/1/2026	12:30:00 PM	11.59	kvar
5/1/2026	12:45:00 PM	11.67	kvar
5/1/2026	1:00:00 PM	11.54	kvar
5/1/2026	1:15:00 PM	11.75	kvar
5/1/2026	1:30:00 PM	11.41	kvar
5/1/2026	1:45:00 PM	11.80	kvar
5/1/2026	2:00:00 PM	11.23	kvar
5/1/2026	2:15:00 PM	11.79	kvar
5/1/2026	2:30:00 PM	11.41	kvar
5/1/2026	2:45:00 PM	11.95	kvar
5/1/2026	3:00:00 PM	11.74	kvar
5/1/2026	3:15:00 PM	11.82	kvar
5/1/2026	3:30:00 PM	11.54	kvar

**Exceptions**

Name	Date	Time	Duration	Duration Units	MIN	MAX	AVG	Units

**Active Energy Ep (kWh)**

Name	MIN	MAX	Units
Ep (15 min)	-0.0	12.46M	Wh
Ep+ (15 min)	-0.0	12.46M	Wh
Ep- (15 min)	-0.0	-0.0	Wh



5/1/2026 - 12:15:00 PM

Value

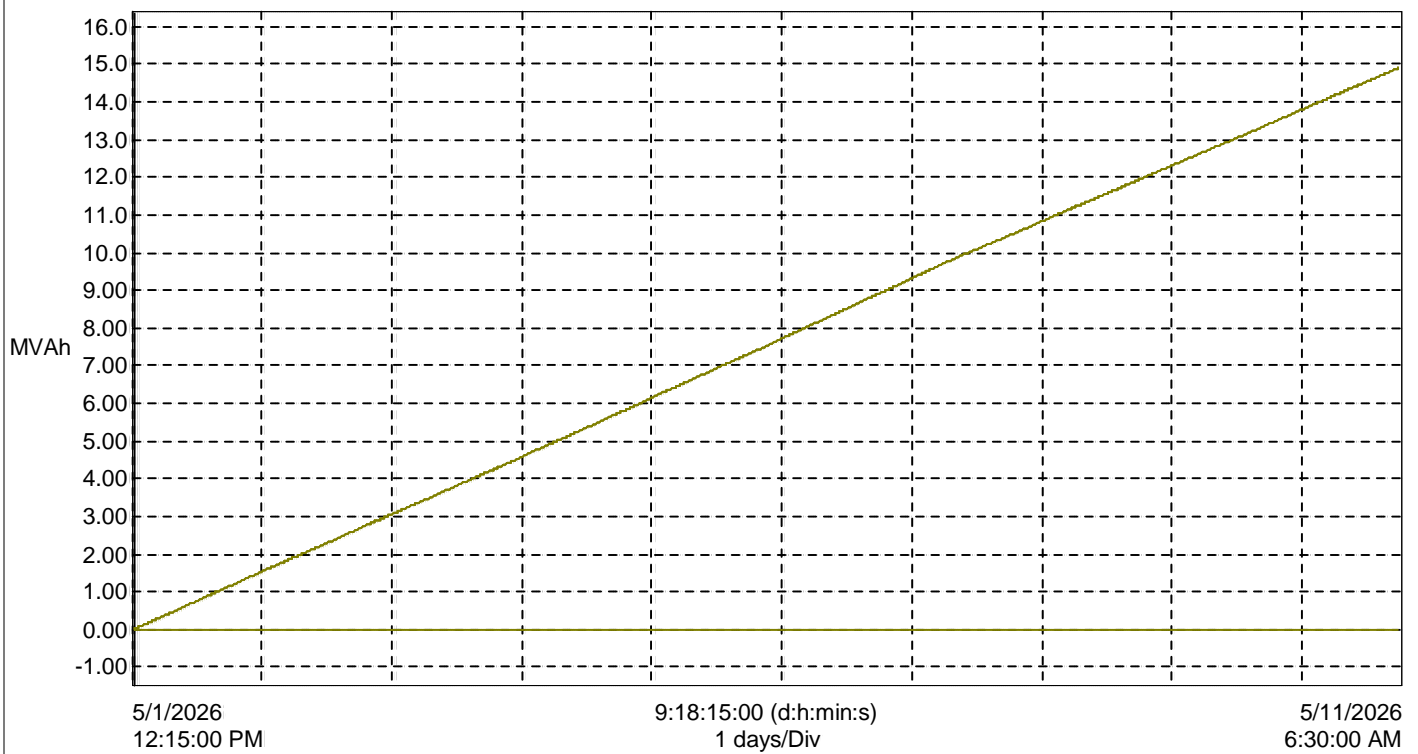
- 0.0 — Ep (15 min) (Wh)
- 0.0 — Ep+ (15 min) (Wh)
- 0.0 — Ep- (15 min) (Wh)

**Ep (15 min) (Wh)**

Date	Time	Val	Units
5/1/2026	12:15:00 PM	0.0	Wh
5/1/2026	12:30:00 PM	13.26	kWh
5/1/2026	12:45:00 PM	26.80	kWh
5/1/2026	1:00:00 PM	40.48	kWh
5/1/2026	1:15:00 PM	54.05	kWh
5/1/2026	1:30:00 PM	67.29	kWh
5/1/2026	1:45:00 PM	81.07	kWh
5/1/2026	2:00:00 PM	94.21	kWh
5/1/2026	2:15:00 PM	108.0	kWh
5/1/2026	2:30:00 PM	121.1	kWh
5/1/2026	2:45:00 PM	134.9	kWh
5/1/2026	3:00:00 PM	148.1	kWh
5/1/2026	3:15:00 PM	161.6	kWh
5/1/2026	3:30:00 PM	174.8	kWh
5/1/2026	3:45:00 PM	188.6	kWh
5/1/2026	4:00:00 PM	202.1	kWh
5/1/2026	4:15:00 PM	216.0	kWh
5/1/2026	4:30:00 PM	229.4	kWh
5/1/2026	4:45:00 PM	243.2	kWh
5/1/2026	5:00:00 PM	256.9	kWh

### Apparent Energy Es (kVAh)

Name	MIN	MAX	Units
Es (15 min)	-0.0	14.91M	VAh
Es+ (15 min)	-0.0	14.91M	VAh
Es- (15 min)	-0.0	-0.0	VAh



5/1/2026 - 12:15:00 PM

Value

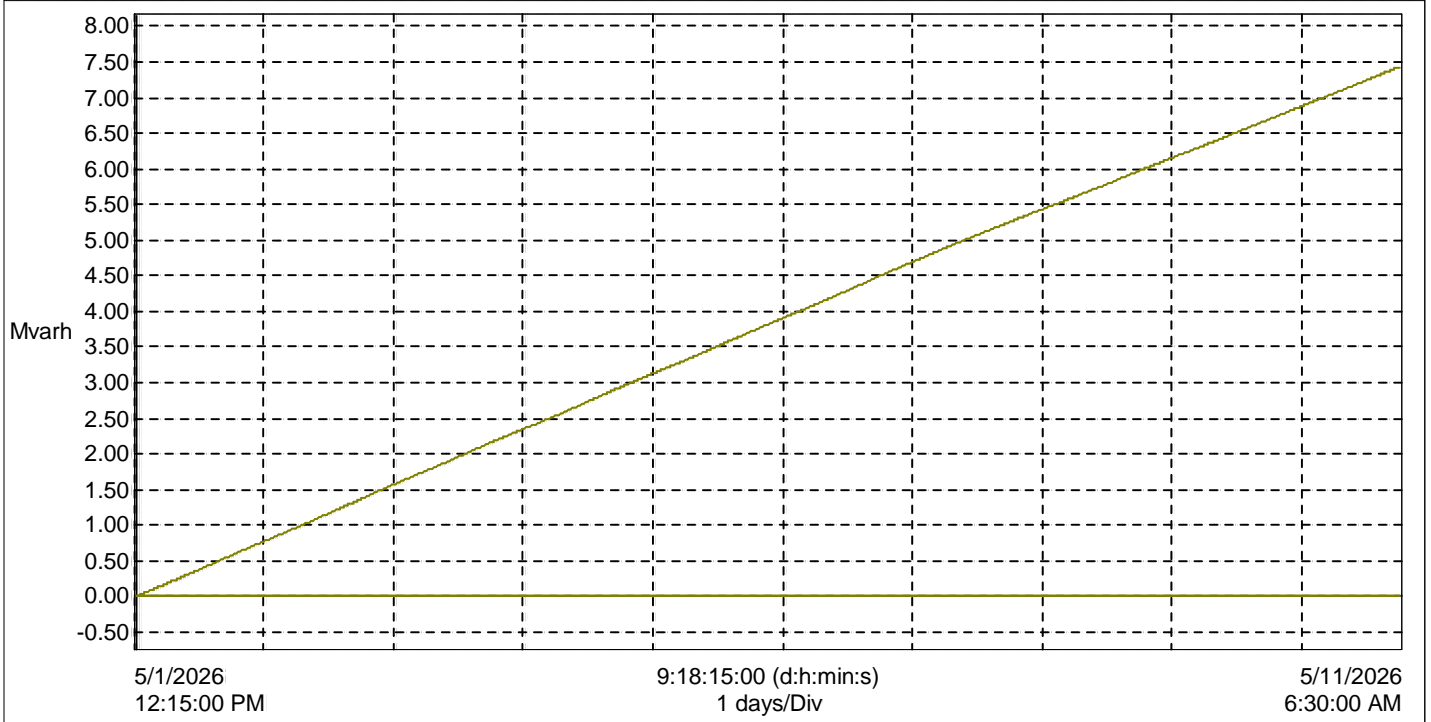
- 0.0 — Es (15 min) (VAh)
- 0.0 — Es+ (15 min) (VAh)
- 0.0 — Es- (15 min) (VAh)

### Es (15 min) (VAh)

Date	Time	Val	Units
5/1/2026	12:15:00 PM	0.0	VAh
5/1/2026	12:30:00 PM	15.80	kVAh
5/1/2026	12:45:00 PM	31.93	kVAh
5/1/2026	1:00:00 PM	48.18	kVAh
5/1/2026	1:15:00 PM	64.34	kVAh
5/1/2026	1:30:00 PM	80.15	kVAh
5/1/2026	1:45:00 PM	96.52	kVAh
5/1/2026	2:00:00 PM	112.2	kVAh
5/1/2026	2:15:00 PM	128.5	kVAh
5/1/2026	2:30:00 PM	144.3	kVAh
5/1/2026	2:45:00 PM	160.7	kVAh
5/1/2026	3:00:00 PM	176.5	kVAh
5/1/2026	3:15:00 PM	192.5	kVAh
5/1/2026	3:30:00 PM	208.3	kVAh
5/1/2026	3:45:00 PM	224.7	kVAh
5/1/2026	4:00:00 PM	240.9	kVAh
5/1/2026	4:15:00 PM	257.4	kVAh
5/1/2026	4:30:00 PM	273.4	kVAh
5/1/2026	4:45:00 PM	289.8	kVAh
5/1/2026	5:00:00 PM	306.1	kVAh

**Reactive Energy Eq (kvarh)**

Name	MIN	MAX	Units
Eq/q1 (15 min)	-0.0	7.429M	varh
Eq/q2 (15 min)	-0.0	-0.0	varh
Eq/q3 (15 min)	-0.0	-0.0	varh
Eq/q4 (15 min)	-0.0	-0.0	varh



5/1/2026 - 12:15:00 PM

Value

- 0.0 — Eq/q1 (15 min) (varh)
- 0.0 — Eq/q2 (15 min) (varh)
- 0.0 — Eq/q3 (15 min) (varh)
- 0.0 — Eq/q4 (15 min) (varh)

**Eq/q1 (15 min) (varh)**

Date	Time	Val	Units
5/1/2026	12:15:00 PM	0.0	varh
5/1/2026	12:30:00 PM	7.898	kvarh
5/1/2026	12:45:00 PM	15.80	kvarh
5/1/2026	1:00:00 PM	23.64	kvarh
5/1/2026	1:15:00 PM	31.59	kvarh
5/1/2026	1:30:00 PM	39.35	kvarh
5/1/2026	1:45:00 PM	47.31	kvarh
5/1/2026	2:00:00 PM	54.96	kvarh
5/1/2026	2:15:00 PM	62.98	kvarh
5/1/2026	2:30:00 PM	70.78	kvarh
5/1/2026	2:45:00 PM	78.83	kvarh
5/1/2026	3:00:00 PM	86.80	kvarh
5/1/2026	3:15:00 PM	94.79	kvarh
5/1/2026	3:30:00 PM	102.6	kvarh
5/1/2026	3:45:00 PM	110.5	kvarh
5/1/2026	4:00:00 PM	118.5	kvarh
5/1/2026	4:15:00 PM	126.6	kvarh
5/1/2026	4:30:00 PM	134.5	kvarh
5/1/2026	4:45:00 PM	142.6	kvarh
5/1/2026	5:00:00 PM	150.6	kvarh



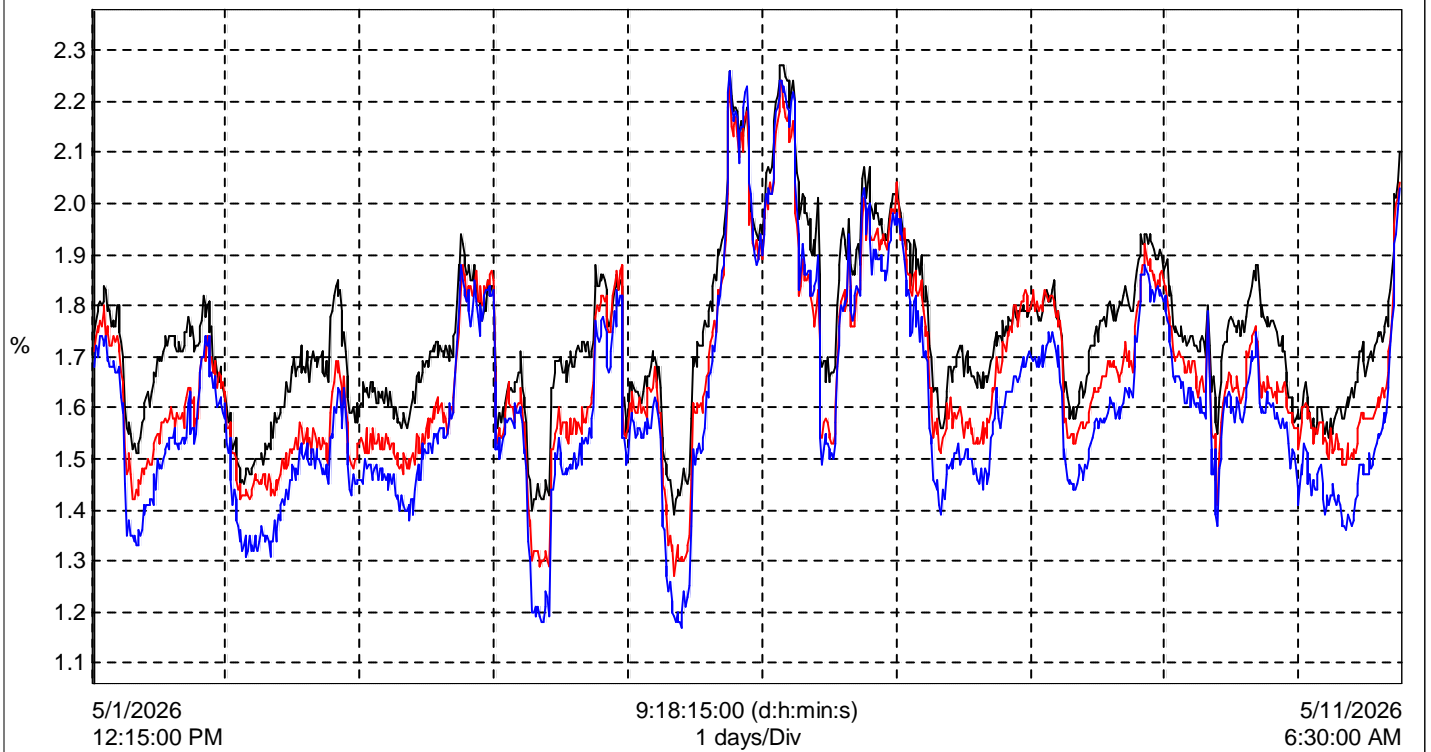






**Phase-to-Neutral Total Harmonic Distortion**

Name	AVG	MIN	MIN date	MIN time	MAX	MAX date	MAX time	Units
V1THD (15 min)	1.737	1.390	5/5/2026	8:30:00 PM	2.270	5/6/2026	3:30:00 PM	%
V2THD (15 min)	1.659	1.270	5/5/2026	8:30:00 PM	2.240	5/6/2026	3:45:00 PM	%
V3THD (15 min)	1.604	1.170	5/5/2026	9:45:00 PM	2.260	5/6/2026	6:30:00 AM	%



5/1/2026 - 12:30:00 PM

Value

- 1.750 — V1THD (15 min) (%)
- 1.710 — V2THD (15 min) (%)
- 1.680 — V3THD (15 min) (%)

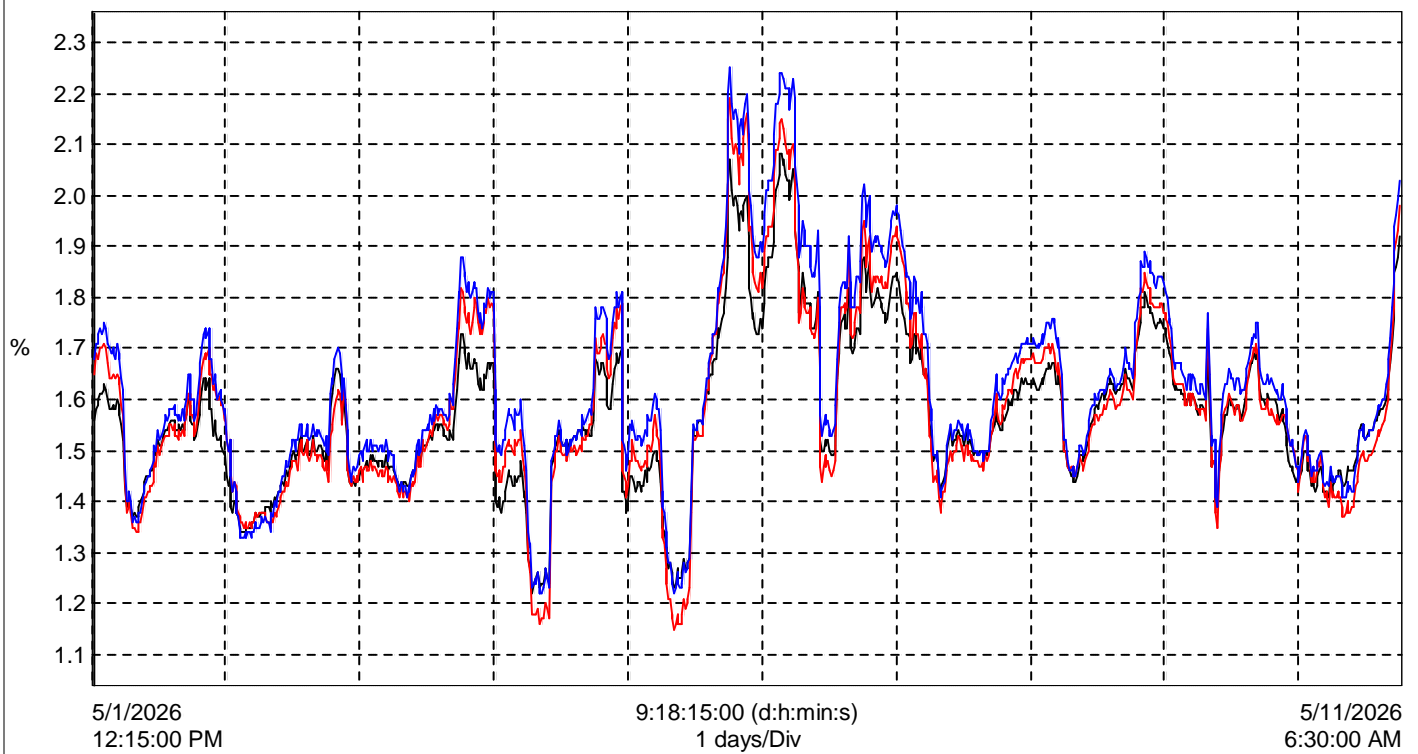
V1THD (15 min) (%)			
Date	Time	Val	Units
5/1/2026	12:30:00 PM	1.750	%
5/1/2026	12:45:00 PM	1.770	%
5/1/2026	1:00:00 PM	1.790	%
5/1/2026	1:15:00 PM	1.800	%
5/1/2026	1:30:00 PM	1.810	%
5/1/2026	1:45:00 PM	1.800	%
5/1/2026	2:00:00 PM	1.810	%
5/1/2026	2:15:00 PM	1.840	%
5/1/2026	2:30:00 PM	1.830	%
5/1/2026	2:45:00 PM	1.790	%
5/1/2026	3:00:00 PM	1.800	%
5/1/2026	3:15:00 PM	1.790	%
5/1/2026	3:30:00 PM	1.760	%

**Exceptions**

Name	Date	Time	Duration	Duration Units	MIN	MAX	AVG	Units

**Phase-to-Phase Total Harmonic Distortion**

Name	AVG	MIN	MIN date	MIN time	MAX	MAX date	MAX time	Units
U12THD (15 min)	1.570	1.220	5/4/2026	7:00:00 PM	2.080	5/6/2026	3:30:00 PM	%
U23THD (15 min)	1.582	1.150	5/5/2026	8:30:00 PM	2.190	5/6/2026	6:30:00 AM	%
U31THD (15 min)	1.624	1.220	5/4/2026	8:30:00 PM	2.250	5/6/2026	6:30:00 AM	%



5/1/2026 - 12:30:00 PM

Value

- 1.560 — U12THD (15 min) (%)
- 1.650 — U23THD (15 min) (%)
- 1.680 — U31THD (15 min) (%)

**U12THD (15 min) (%)**

Date	Time	Val	Units
5/1/2026	12:30:00 PM	1.560	%
5/1/2026	12:45:00 PM	1.580	%
5/1/2026	1:00:00 PM	1.590	%
5/1/2026	1:15:00 PM	1.600	%
5/1/2026	1:30:00 PM	1.610	%
5/1/2026	1:45:00 PM	1.610	%
5/1/2026	2:00:00 PM	1.620	%
5/1/2026	2:15:00 PM	1.630	%
5/1/2026	2:30:00 PM	1.620	%
5/1/2026	2:45:00 PM	1.600	%
5/1/2026	3:00:00 PM	1.600	%
5/1/2026	3:15:00 PM	1.580	%
5/1/2026	3:30:00 PM	1.580	%

**Exceptions**

Name	Date	Time	Duration	Duration Units	MIN	MAX	AVG	Units









## Configuration

Database File Name	EQHB.dvb
Recording status	
Session name	EQHB
Recording start	5/1/2026 12:10:03 PM
Recording end	5/11/2026 6:25:03 AM
Recording duration	9 days, 18:15:00 (h:min:s)
1 s trend	No
200 ms trend	No
1 s harmonics	No
Aggregated harmonics	No
Instrument ID	
PEL model	PEL113
PEL serial number	107349AAH
PEL name	PEL113-107349AAH
PEL location	St Josephs
Firmware DSP version	1.96
Firmware microprocessor version	1.14
Hardware version	
Measurement configuration and status	
Aggregation period	15 min
Electrical hook-up	3-phase 4-wire Y
Nominal frequency	Auto
Primary nominal voltage	- - -
Secondary nominal voltage	- - -
Current sensor I1	MA193/MA194/A193/A196
Current sensor I2	MA193/MA194/A193/A196
Current sensor I3	MA193/MA194/A193/A196
Line flexible sensor range	400 A
Line flexible sensor wraps	1

