



## Trend Summary Report

Report start	5/1/2026 12:45:00 PM
Report end	5/11/2026 6:15:00 AM
Report duration	9 days, 17:30:00 (h:min:s)
Instrument ID	PEL113 108841AAH

Database File Name: MCC EMNA.dvb

Operator

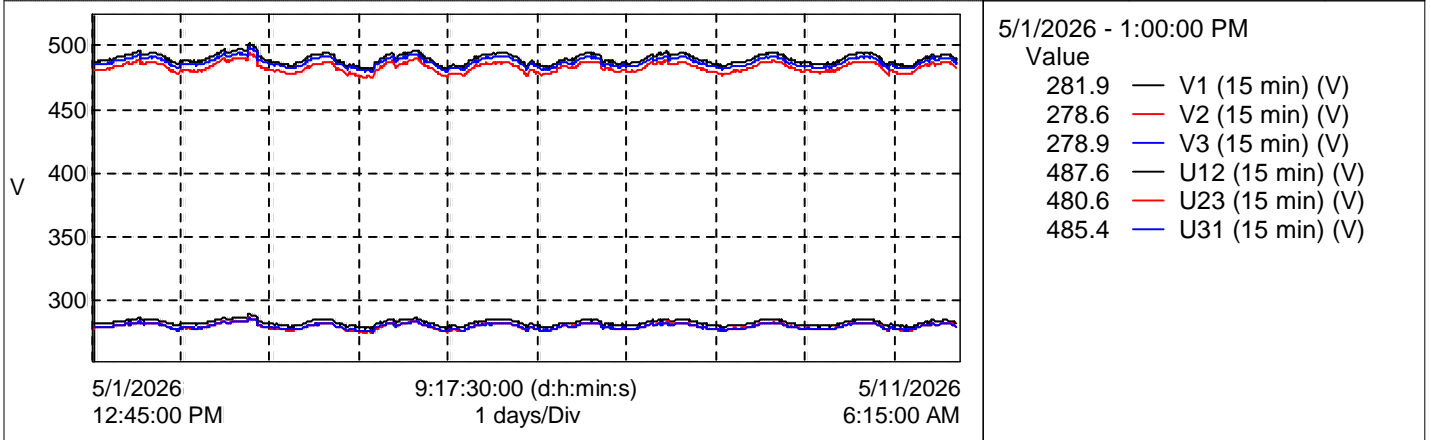
Test Site

Comments

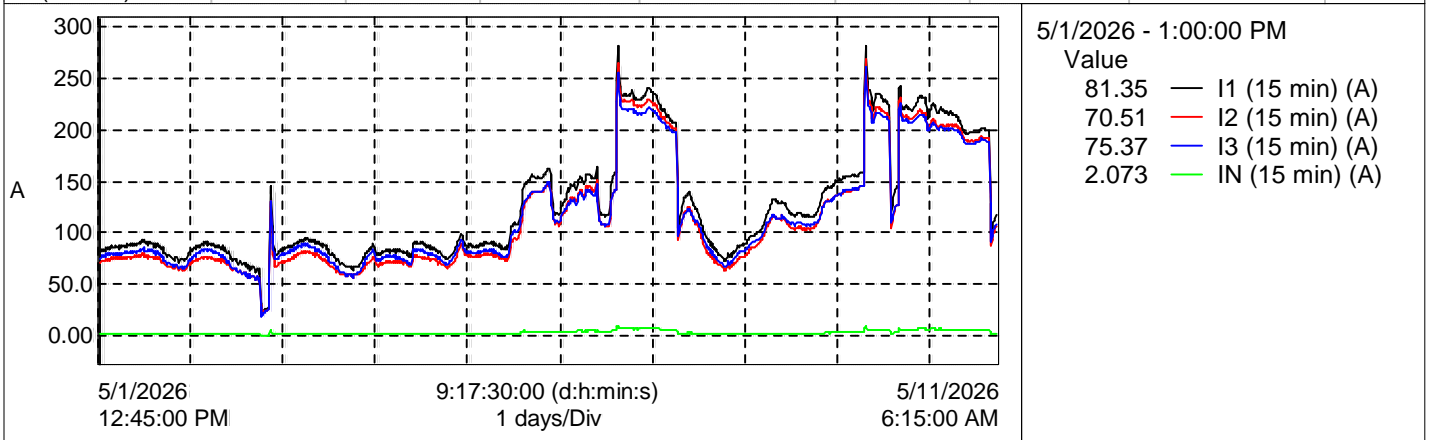
Table of Contents	
Coversheet	1
Table of Contents	2
V (V) - I (A) - P (W)	3
Phase-to-Neutral Voltage RMS	4
Phase-to-Phase Voltage RMS	5
Current RMS	6
Power Factor	7
Active Power P (kW)	8
Apparent Power S (kVA)	9
Reactive Power Q (kvar)	10
Active Energy Ep (kWh)	11
Apparent Energy Es (kVAh)	12
Reactive 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)

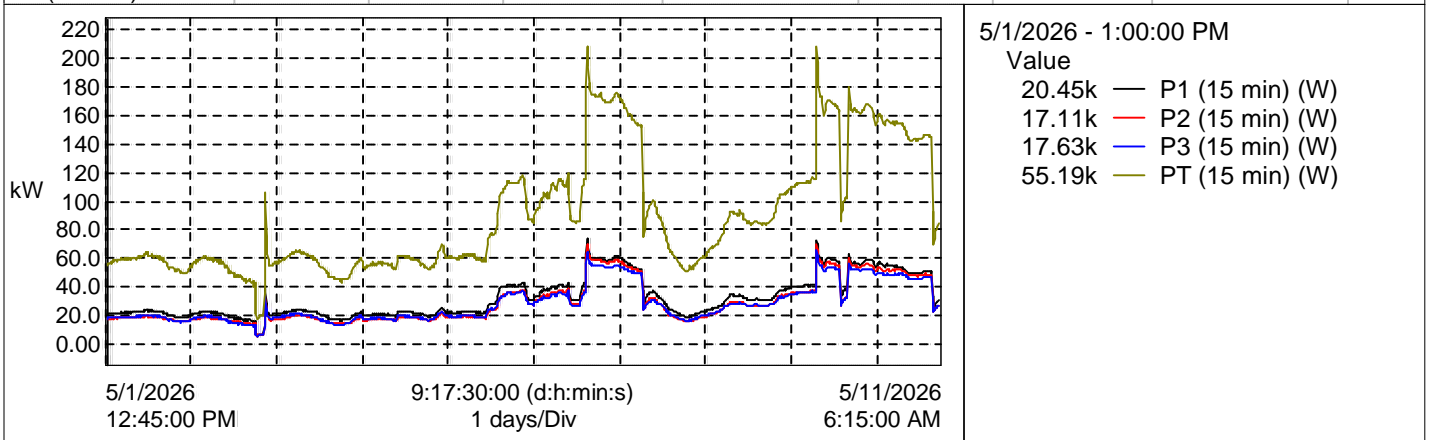
Name	AVG	MIN	MIN date	MIN time	MAX	MAX date	MAX time	Units
U12 (15 min)	489.9	481.4	5/4/2026	4:30:00 PM	502.1	5/3/2026	7:00:00 AM	V
U23 (15 min)	483.2	474.8	5/4/2026	4:30:00 PM	494.6	5/3/2026	7:00:00 AM	V
U31 (15 min)	487.3	479.8	5/4/2026	4:30:00 PM	498.9	5/3/2026	7:00:00 AM	V
V1 (15 min)	282.9	278.4	5/4/2026	4:30:00 PM	289.9	5/3/2026	7:00:00 AM	V



Name	AVG	MIN	MIN date	MIN time	MAX	MAX date	MAX time	Units
I1 (15 min)	136.5	21.72	5/3/2026	7:00:00 AM	281.1	5/7/2026	3:45:00 AM	A
I2 (15 min)	126.2	20.94	5/3/2026	7:00:00 AM	269.1	5/9/2026	8:15:00 PM	A
I3 (15 min)	126.2	19.81	5/3/2026	7:00:00 AM	260.5	5/9/2026	8:15:00 PM	A
IN (15 min)	3.780	473m	5/3/2026	7:00:00 AM	9.484	5/9/2026	8:15:00 PM	A

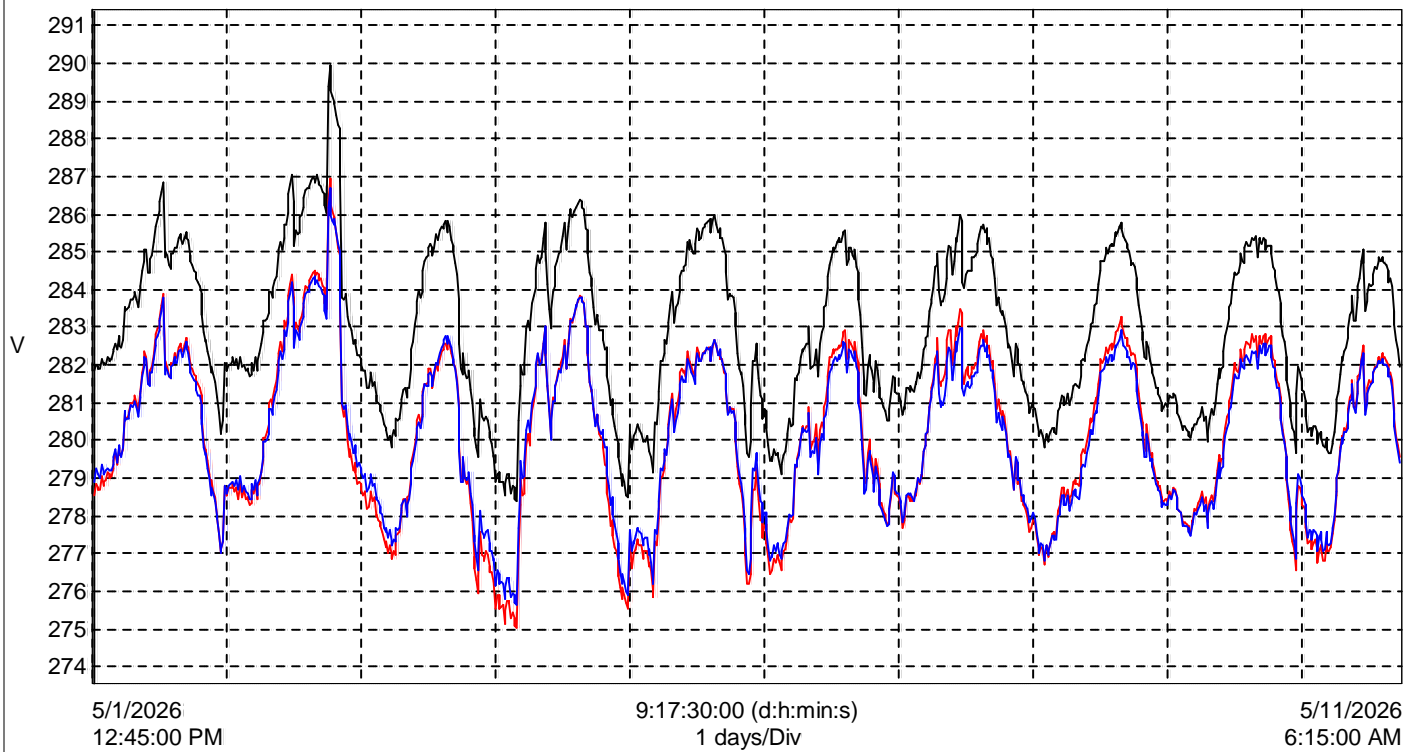


Name	AVG	MIN	MIN date	MIN time	MAX	MAX date	MAX time	Units
P1 (15 min)	32.13	5.904	5/3/2026	7:00:00 AM	73.73	5/7/2026	3:45:00 AM	kW
P2 (15 min)	28.76	5.766	5/3/2026	7:00:00 AM	69.90	5/9/2026	8:15:00 PM	kW
P3 (15 min)	28.20	5.386	5/3/2026	7:00:00 AM	65.61	5/9/2026	8:15:00 PM	kW
PT (15 min)	89.09	17.05	5/3/2026	7:00:00 AM	208.4	5/7/2026	3:45:00 AM	kW



**Phase-to-Neutral Voltage RMS**

Name	AVG	MIN	MIN date	MIN time	MAX	MAX date	MAX time	Units
V1 (15 min)	282.9	278.4	5/4/2026	4:30:00 PM	289.9	5/3/2026	7:00:00 AM	V
V2 (15 min)	280.1	275.0	5/4/2026	4:30:00 PM	286.9	5/3/2026	7:00:00 AM	V
V3 (15 min)	280.1	275.6	5/4/2026	4:30:00 PM	286.7	5/3/2026	7:00:00 AM	V



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

Value

- 281.9 — V1 (15 min) (V)
- 278.6 — V2 (15 min) (V)
- 278.9 — V3 (15 min) (V)

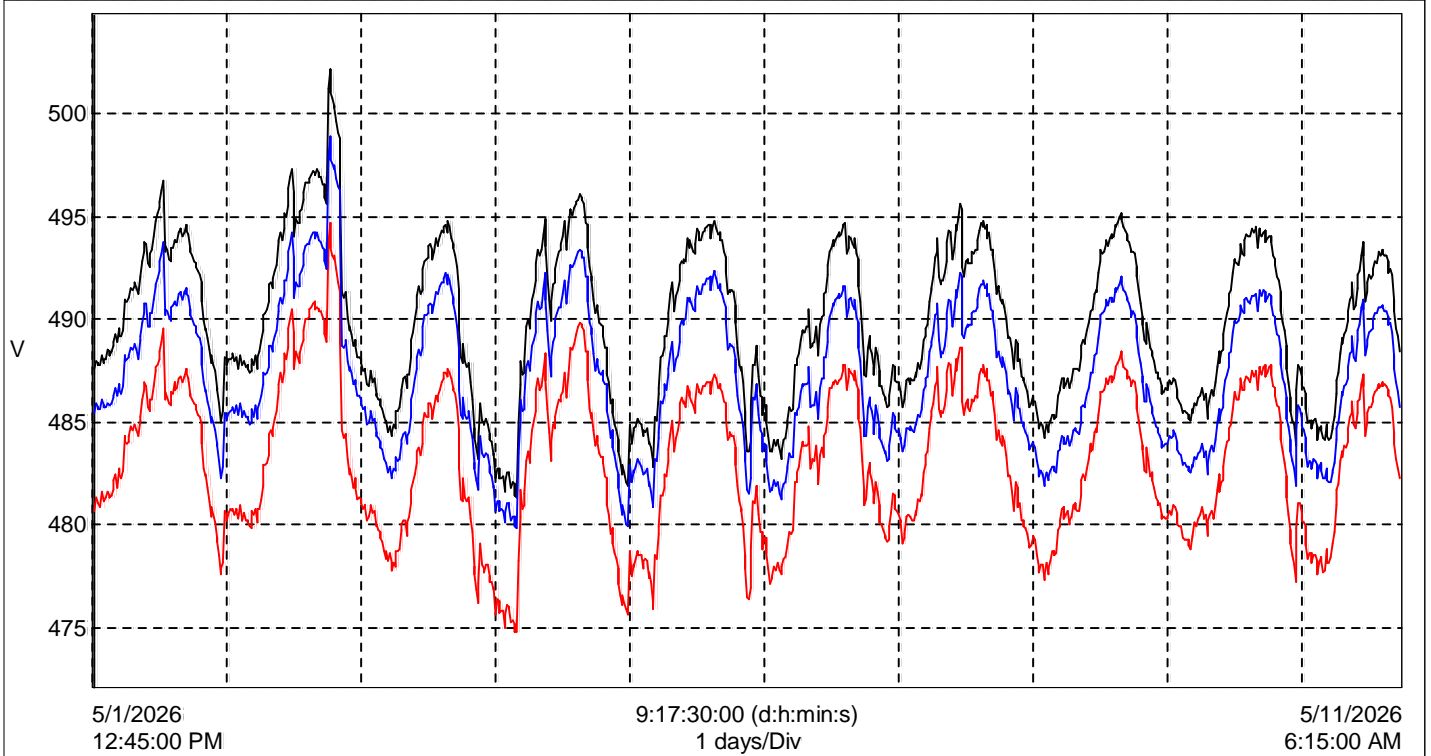
V1 (15 min) (V)			
Date	Time	Val	Units
5/1/2026	1:00:00 PM	281.9	V
5/1/2026	1:15:00 PM	282.0	V
5/1/2026	1:30:00 PM	282.0	V
5/1/2026	1:45:00 PM	281.9	V
5/1/2026	2:00:00 PM	281.9	V
5/1/2026	2:15:00 PM	282.2	V
5/1/2026	2:30:00 PM	282.0	V
5/1/2026	2:45:00 PM	282.1	V
5/1/2026	3:00:00 PM	282.0	V
5/1/2026	3:15:00 PM	282.2	V
5/1/2026	3:30:00 PM	282.2	V
5/1/2026	3:45:00 PM	282.1	V
5/1/2026	4:00:00 PM	282.2	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)	489.9	481.4	5/4/2026	4:30:00 PM	502.1	5/3/2026	7:00:00 AM	V
U23 (15 min)	483.2	474.8	5/4/2026	4:30:00 PM	494.6	5/3/2026	7:00:00 AM	V
U31 (15 min)	487.3	479.8	5/4/2026	4:30:00 PM	498.9	5/3/2026	7:00:00 AM	V



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

Value

- 487.6 — U12 (15 min) (V)
- 480.6 — U23 (15 min) (V)
- 485.4 — U31 (15 min) (V)

**U12 (15 min) (V)**

Date	Time	Val	Units
5/1/2026	1:00:00 PM	487.6	V
5/1/2026	1:15:00 PM	487.9	V
5/1/2026	1:30:00 PM	487.8	V
5/1/2026	1:45:00 PM	487.7	V
5/1/2026	2:00:00 PM	487.7	V
5/1/2026	2:15:00 PM	488.3	V
5/1/2026	2:30:00 PM	487.9	V
5/1/2026	2:45:00 PM	488.1	V
5/1/2026	3:00:00 PM	488.0	V
5/1/2026	3:15:00 PM	488.5	V
5/1/2026	3:30:00 PM	488.4	V
5/1/2026	3:45:00 PM	488.3	V
5/1/2026	4:00:00 PM	488.4	V

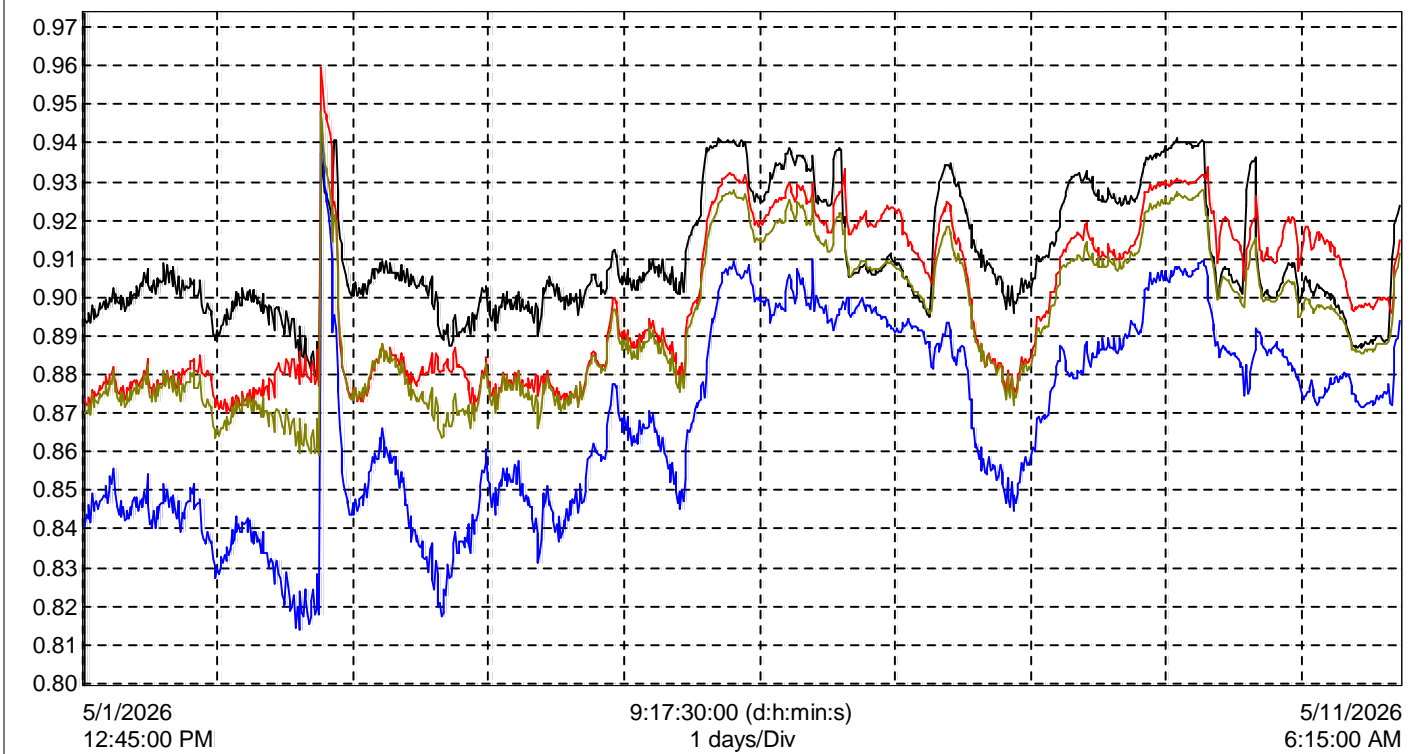
**Exceptions**

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)	0.910	0.879	5/3/2026	6:30:00 AM	0.941	5/6/2026	5:30:00 AM	
PF1- (15 min)	---	NA	5/1/2026	1:00:00 PM	NA	5/1/2026	1:00:00 PM	
PF2+ (15 min)	0.899	0.870	5/2/2026	2:00:00 PM	0.960	5/3/2026	7:00:00 AM	
PF2- (15 min)	---	NA	5/1/2026	1:00:00 PM	NA	5/1/2026	1:00:00 PM	



5/1/2026 - 1:00:00 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	1:00:00 PM	0.895
5/1/2026	1:15:00 PM	0.894
5/1/2026	1:30:00 PM	0.894
5/1/2026	1:45:00 PM	0.896
5/1/2026	2:00:00 PM	0.893
5/1/2026	2:15:00 PM	0.898
5/1/2026	2:30:00 PM	0.895
5/1/2026	2:45:00 PM	0.897
5/1/2026	3:00:00 PM	0.895
5/1/2026	3:15:00 PM	0.896
5/1/2026	3:30:00 PM	0.898
5/1/2026	3:45:00 PM	0.897
5/1/2026	4:00:00 PM	0.898

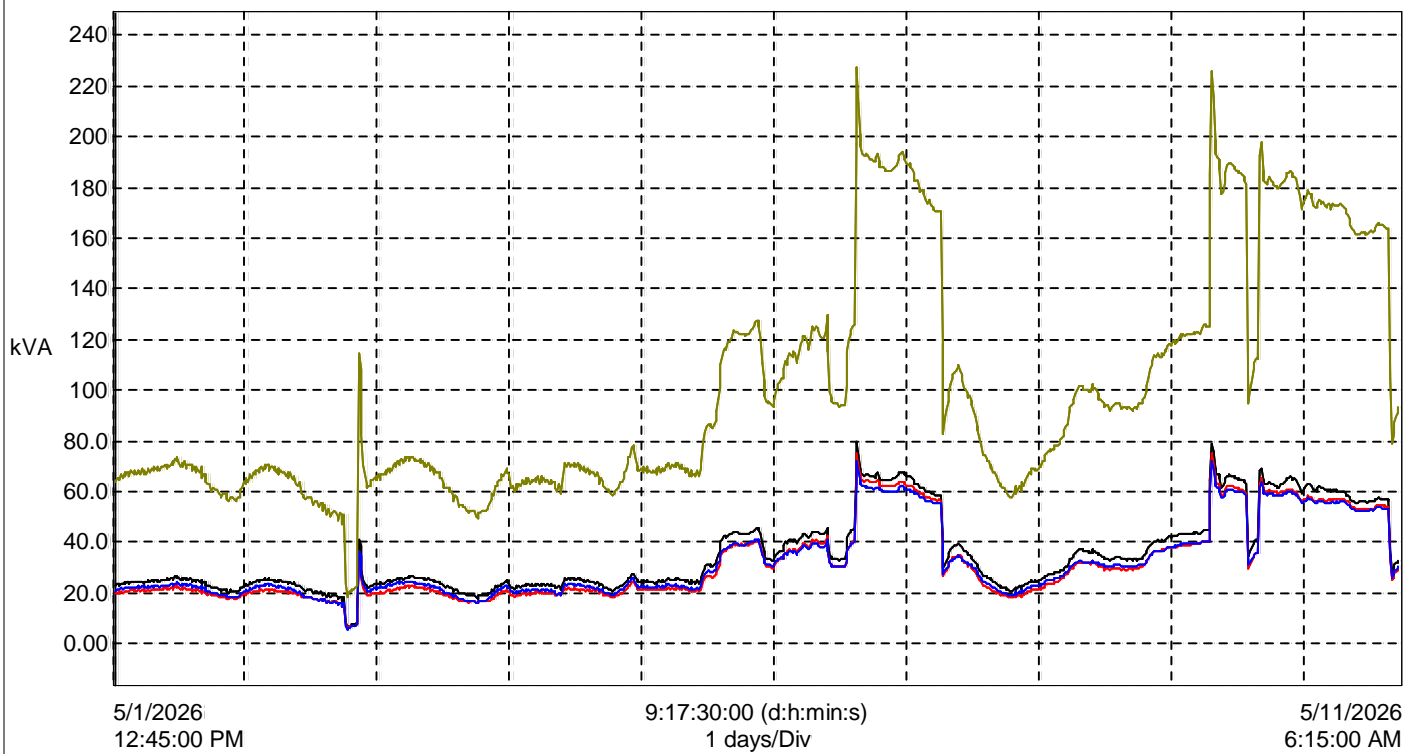
**Exceptions**

Name	Date	Time	Duration	Duration Units	MIN	MAX	AVG	Units



### Apparent Power S (kVA)

Name	AVG	MIN	MAX	Units
S1 (15 min)	35.27	6.298	80.07	kVA
S1+ (15 min)	35.27	6.298	80.07	kVA
S1- (15 min)	---	NA	NA	VA
S2 (15 min)	31.77	6.009	74.86	kVA



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

Value

- 22.86k — S1 (15 min) (VA)
- 19.59k — S2 (15 min) (VA)
- 20.97k — S3 (15 min) (VA)

#### S1 (15 min) (VA)

Date	Time	Val	Units
5/1/2026	1:00:00 PM	22.86	kVA
5/1/2026	1:15:00 PM	23.35	kVA
5/1/2026	1:30:00 PM	23.57	kVA
5/1/2026	1:45:00 PM	23.27	kVA
5/1/2026	2:00:00 PM	23.91	kVA
5/1/2026	2:15:00 PM	23.35	kVA
5/1/2026	2:30:00 PM	24.21	kVA
5/1/2026	2:45:00 PM	23.78	kVA
5/1/2026	3:00:00 PM	24.14	kVA
5/1/2026	3:15:00 PM	24.31	kVA
5/1/2026	3:30:00 PM	23.85	kVA
5/1/2026	3:45:00 PM	24.52	kVA
5/1/2026	4:00:00 PM	24.37	kVA

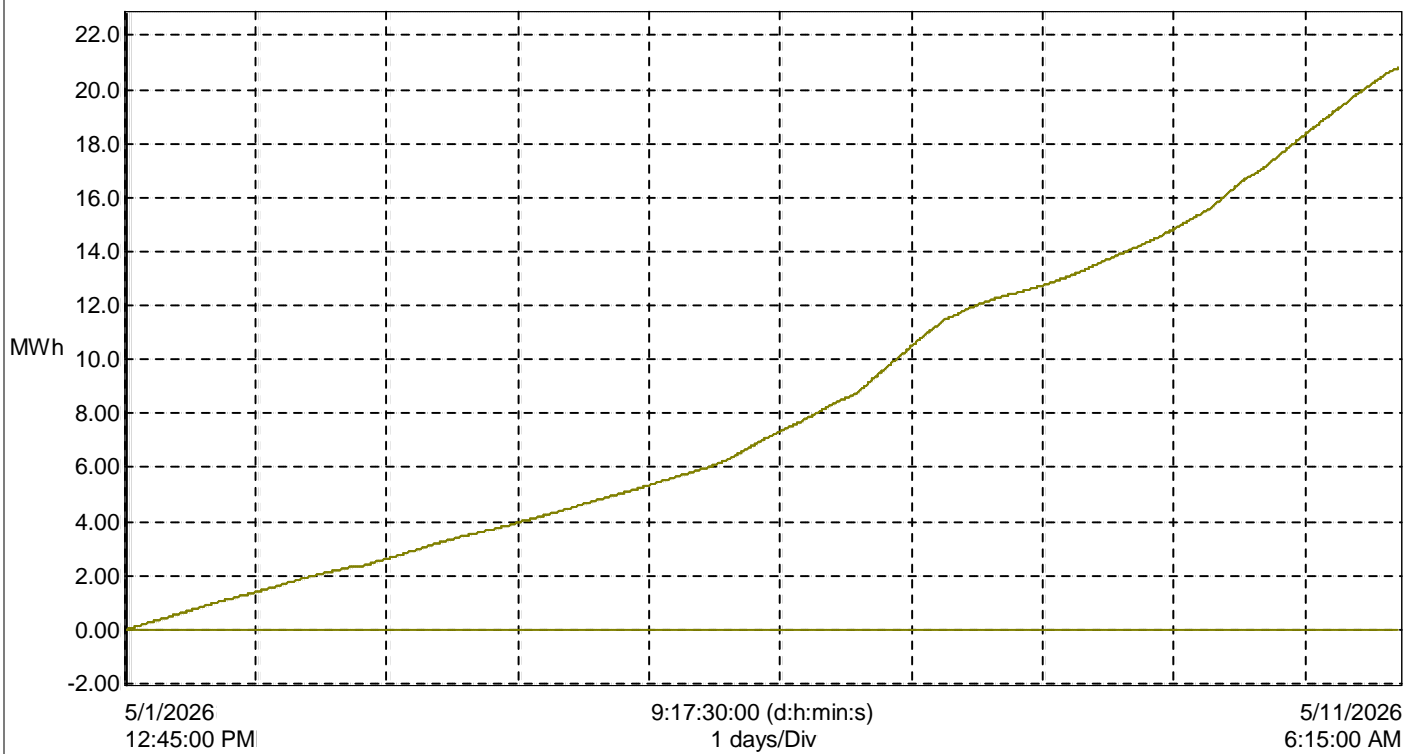
#### Exceptions

Name	Date	Time	Duration	Duration Units	MIN	MAX	AVG	Units



**Active Energy Ep (kWh)**

Name	MIN	MAX	Units
Ep (15 min)	-0.0	20.80M	Wh
Ep+ (15 min)	-0.0	20.80M	Wh
Ep- (15 min)	-0.0	-0.0	Wh



5/1/2026 - 12:45:00 PM

Value

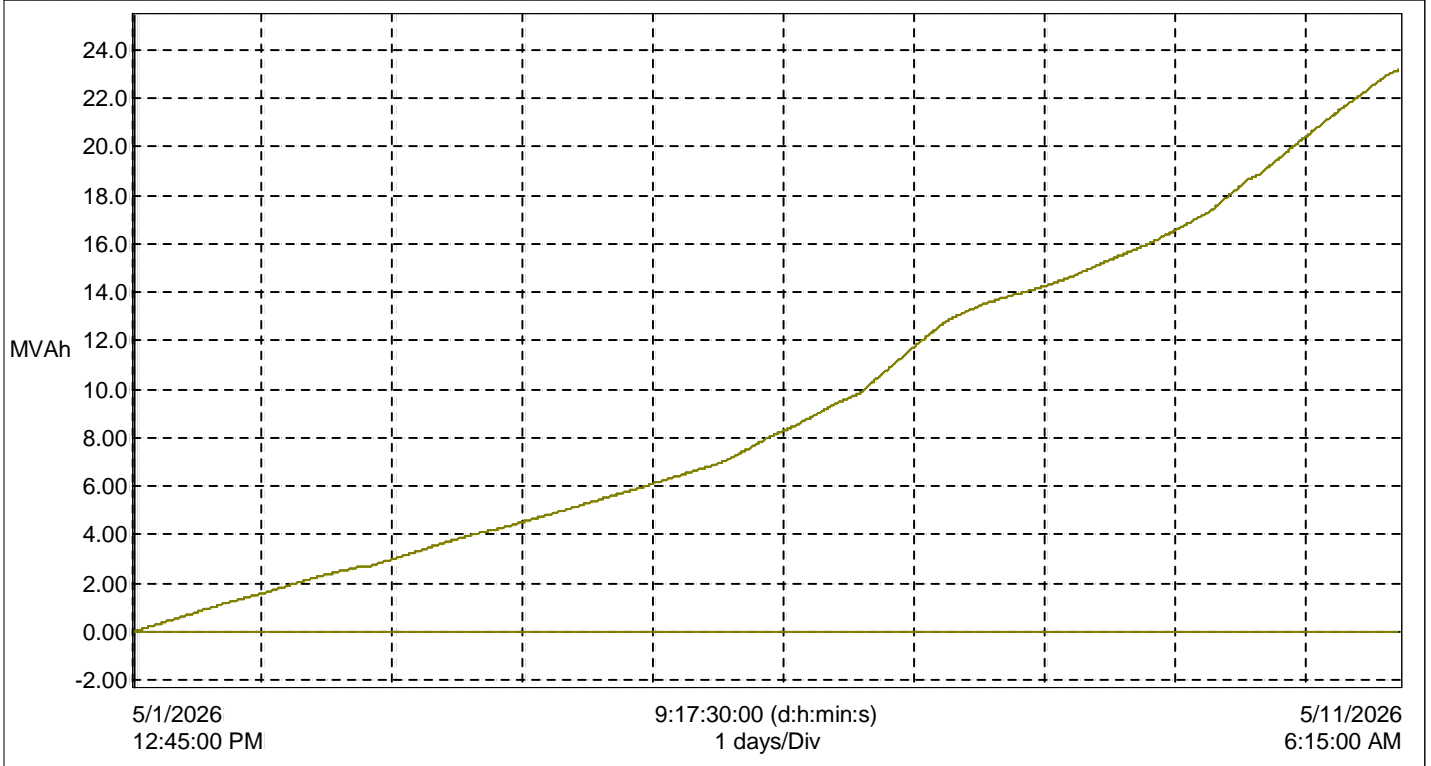
- 0.0 — Ep (15 min) (Wh)
- 0.0 — Ep+ (15 min) (Wh)
- 0.0 — Ep- (15 min) (Wh)

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

Date	Time	Val	Units
5/1/2026	12:45:00 PM	0.0	Wh
5/1/2026	1:00:00 PM	13.80	kWh
5/1/2026	1:15:00 PM	27.95	kWh
5/1/2026	1:30:00 PM	42.21	kWh
5/1/2026	1:45:00 PM	56.36	kWh
5/1/2026	2:00:00 PM	70.80	kWh
5/1/2026	2:15:00 PM	85.05	kWh
5/1/2026	2:30:00 PM	99.73	kWh
5/1/2026	2:45:00 PM	114.2	kWh
5/1/2026	3:00:00 PM	128.8	kWh
5/1/2026	3:15:00 PM	143.6	kWh
5/1/2026	3:30:00 PM	158.1	kWh
5/1/2026	3:45:00 PM	173.0	kWh
5/1/2026	4:00:00 PM	187.8	kWh
5/1/2026	4:15:00 PM	202.4	kWh
5/1/2026	4:30:00 PM	217.3	kWh
5/1/2026	4:45:00 PM	232.0	kWh
5/1/2026	5:00:00 PM	247.0	kWh
5/1/2026	5:15:00 PM	261.8	kWh
5/1/2026	5:30:00 PM	276.6	kWh

### Apparent Energy Es (kVAh)

Name	MIN	MAX	Units
Es (15 min)	-0.0	23.17M	VAh
Es+ (15 min)	-0.0	23.17M	VAh
Es- (15 min)	-0.0	-0.0	VAh



5/1/2026 - 12:45:00 PM

Value

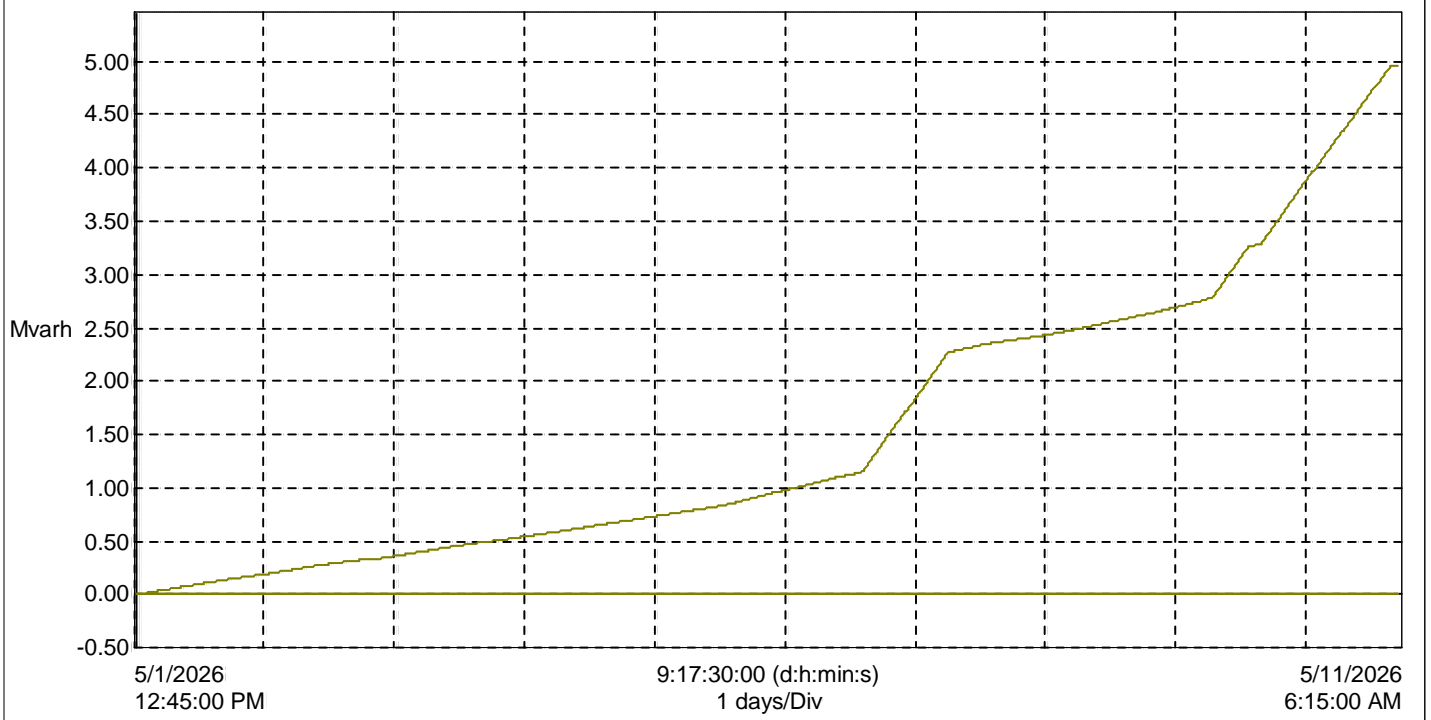
- 0.0 — Es (15 min) (VAh)
- 0.0 — Es+ (15 min) (VAh)
- 0.0 — Es- (15 min) (VAh)

#### Es (15 min) (VAh)

Date	Time	Val	Units
5/1/2026	12:45:00 PM	0.0	VAh
5/1/2026	1:00:00 PM	15.86	kVAh
5/1/2026	1:15:00 PM	32.12	kVAh
5/1/2026	1:30:00 PM	48.50	kVAh
5/1/2026	1:45:00 PM	64.71	kVAh
5/1/2026	2:00:00 PM	81.32	kVAh
5/1/2026	2:15:00 PM	97.60	kVAh
5/1/2026	2:30:00 PM	114.5	kVAh
5/1/2026	2:45:00 PM	131.0	kVAh
5/1/2026	3:00:00 PM	147.8	kVAh
5/1/2026	3:15:00 PM	164.7	kVAh
5/1/2026	3:30:00 PM	181.2	kVAh
5/1/2026	3:45:00 PM	198.3	kVAh
5/1/2026	4:00:00 PM	215.2	kVAh
5/1/2026	4:15:00 PM	232.0	kVAh
5/1/2026	4:30:00 PM	249.0	kVAh
5/1/2026	4:45:00 PM	265.7	kVAh
5/1/2026	5:00:00 PM	282.9	kVAh
5/1/2026	5:15:00 PM	299.8	kVAh
5/1/2026	5:30:00 PM	316.6	kVAh

### Reactive Energy Eq (kvarh)

Name	MIN	MAX	Units
Eq/q1 (15 min)	-0.0	4.966M	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 - 12:45:00 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)

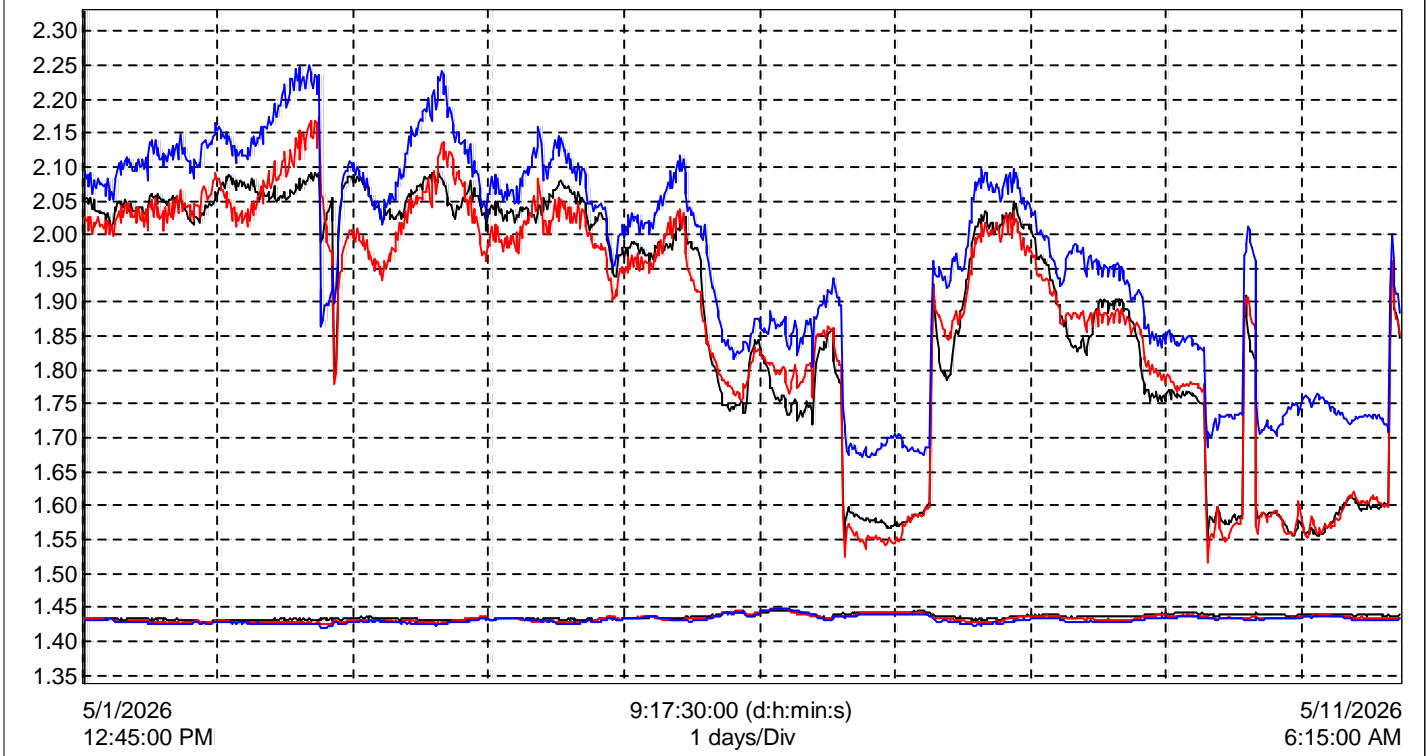
#### Eq/q1 (15 min) (varh)

Date	Time	Val	Units
5/1/2026	12:45:00 PM	0.0	varh
5/1/2026	1:00:00 PM	1.960	kvarh
5/1/2026	1:15:00 PM	3.980	kvarh
5/1/2026	1:30:00 PM	6.015	kvarh
5/1/2026	1:45:00 PM	8.017	kvarh
5/1/2026	2:00:00 PM	10.09	kvarh
5/1/2026	2:15:00 PM	12.09	kvarh
5/1/2026	2:30:00 PM	14.18	kvarh
5/1/2026	2:45:00 PM	16.21	kvarh
5/1/2026	3:00:00 PM	18.28	kvarh
5/1/2026	3:15:00 PM	20.36	kvarh
5/1/2026	3:30:00 PM	22.38	kvarh
5/1/2026	3:45:00 PM	24.48	kvarh
5/1/2026	4:00:00 PM	26.55	kvarh
5/1/2026	4:15:00 PM	28.59	kvarh
5/1/2026	4:30:00 PM	30.67	kvarh
5/1/2026	4:45:00 PM	32.70	kvarh
5/1/2026	5:00:00 PM	34.80	kvarh
5/1/2026	5:15:00 PM	36.86	kvarh
5/1/2026	5:30:00 PM	38.90	kvarh



**CF**

Name	AVG	MIN	MAX	Units
I1cF (15 min)	1.886	1.550	2.095	
I2cF (15 min)	1.880	1.516	2.174	
I3cF (15 min)	1.966	1.671	2.249	
V1cF (15 min)	1.436	1.429	1.446	



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

Value

- 1.433 — V1cF (15 min) ()
- 1.433 — V2cF (15 min) ()
- 1.431 — V3cF (15 min) ()

**I1cF (15 min) ()**

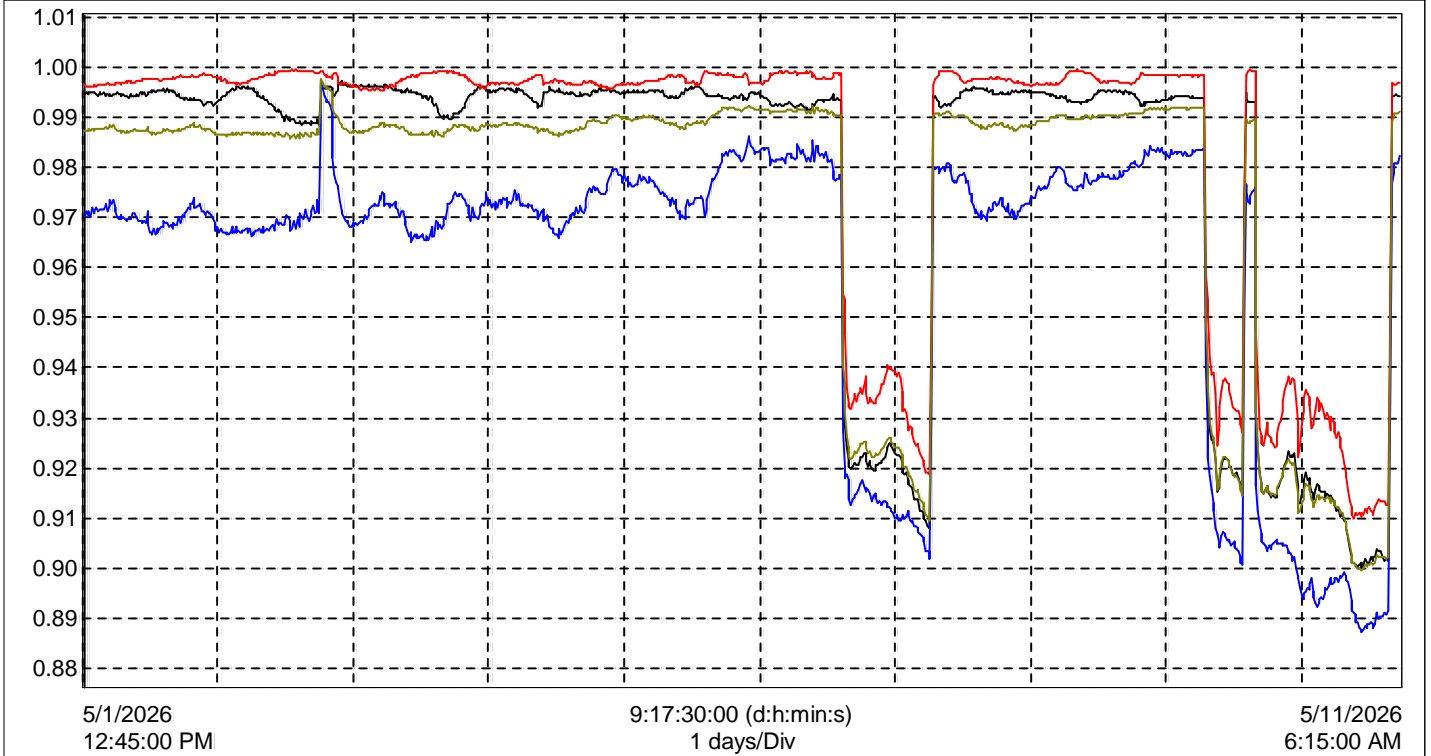
Date	Time	Val
5/1/2026	1:00:00 PM	2.053
5/1/2026	1:15:00 PM	2.054
5/1/2026	1:30:00 PM	2.051
5/1/2026	1:45:00 PM	2.046
5/1/2026	2:00:00 PM	2.055
5/1/2026	2:15:00 PM	2.037
5/1/2026	2:30:00 PM	2.050
5/1/2026	2:45:00 PM	2.037
5/1/2026	3:00:00 PM	2.036
5/1/2026	3:15:00 PM	2.035
5/1/2026	3:30:00 PM	2.031
5/1/2026	3:45:00 PM	2.035
5/1/2026	4:00:00 PM	2.032

**Exceptions**

Name	Date	Time	Duration	Duration Units	MIN	MAX	AVG Units

**Cos  $\phi$  (DPF)**

Name	AVG	MIN	MAX	Units
Cos $\phi$ 1+ (15 min)	0.979	0.900	0.997	
Cos $\phi$ 1- (15 min)	---	NA	NA	
Cos $\phi$ 2+ (15 min)	0.984	0.910	1.000	
Cos $\phi$ 2- (15 min)	---	NA	NA	



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

Value

- X.XX — Cos  $\phi$ 1- (15 min) ()
- X.XX — Cos  $\phi$ 2- (15 min) ()
- X.XX — Cos  $\phi$ 3- (15 min) ()

**Cos  $\phi$ 1+ (15 min) ()**

Date	Time	Val
5/1/2026	1:00:00 PM	0.995
5/1/2026	1:15:00 PM	0.995
5/1/2026	1:30:00 PM	0.995
5/1/2026	1:45:00 PM	0.995
5/1/2026	2:00:00 PM	0.995
5/1/2026	2:15:00 PM	0.995
5/1/2026	2:30:00 PM	0.995
5/1/2026	2:45:00 PM	0.995
5/1/2026	3:00:00 PM	0.995
5/1/2026	3:15:00 PM	0.995
5/1/2026	3:30:00 PM	0.995
5/1/2026	3:45:00 PM	0.995
5/1/2026	4:00:00 PM	0.995

**Exceptions**

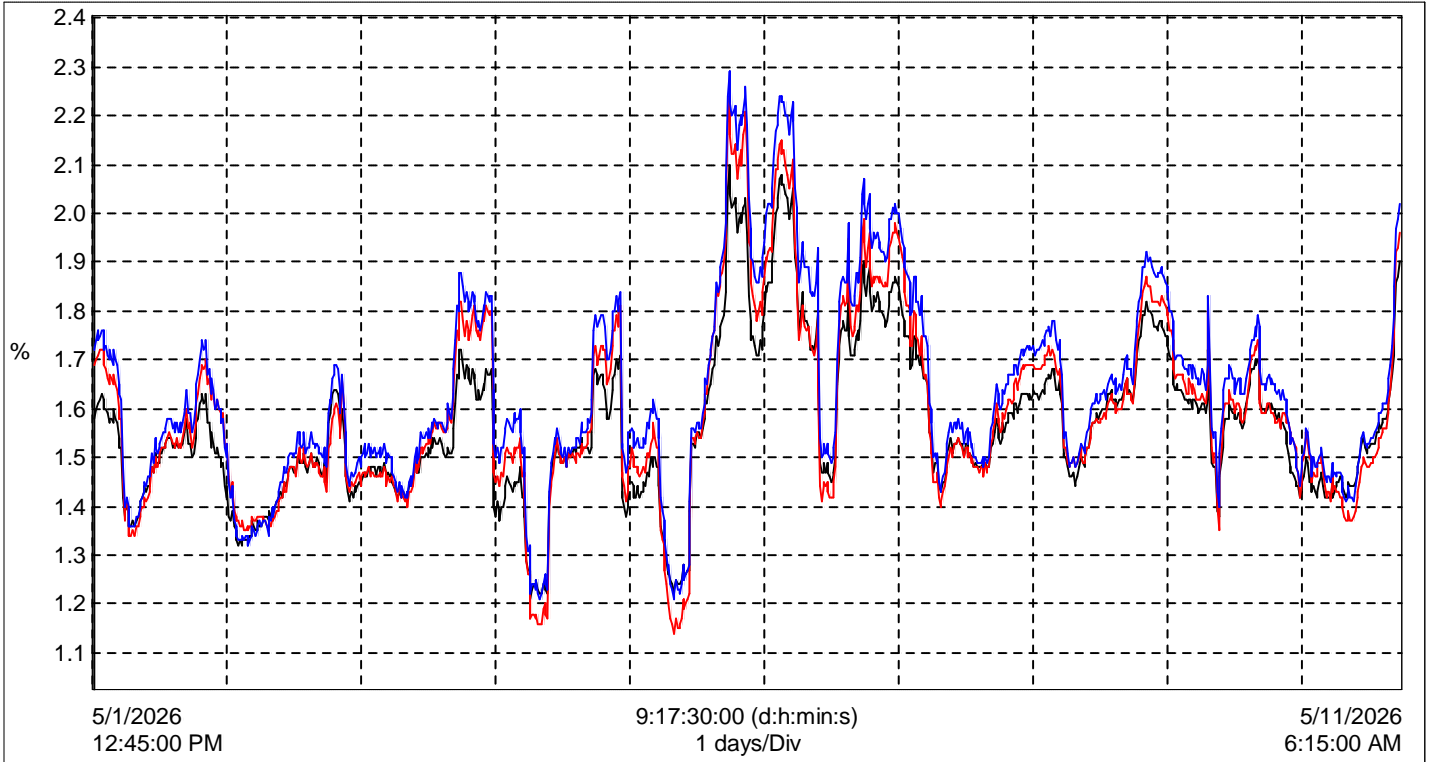
Name	Date	Time	Duration	Duration Units	MIN	MAX	AVG





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

Name	AVG	MIN	MIN date	MIN time	MAX	MAX date	MAX time	Units
U12THD (15 min)	1.566	1.210	5/4/2026	7:00:00 PM	2.100	5/6/2026	6:30:00 AM	%
U23THD (15 min)	1.591	1.140	5/5/2026	8:30:00 PM	2.240	5/6/2026	6:30:00 AM	%
U31THD (15 min)	1.633	1.210	5/4/2026	8:30:00 PM	2.290	5/6/2026	6:30:00 AM	%



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

Value

- 1.580 — U12THD (15 min) (%)
- 1.690 — U23THD (15 min) (%)
- 1.720 — U31THD (15 min) (%)

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

Date	Time	Val	Units
5/1/2026	1:00:00 PM	1.580	%
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	1.590	%
5/1/2026	3:30:00 PM	1.570	%
5/1/2026	3:45:00 PM	1.580	%
5/1/2026	4:00:00 PM	1.580	%

**Exceptions**

Name	Date	Time	Duration	Duration Units	MIN	MAX	AVG	Units









## Configuration

Database File Name	MCC EMNA.dvb
Recording status	
Session name	MCC-EMNA
Recording start	5/1/2026 12:33:13 PM
Recording end	5/11/2026 6:03:13 AM
Recording duration	9 days, 17:30:00 (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	108841AAH
PEL name	PEL113-108841AAH
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

