

POWER QUALITY TEST REPORT

Customer name – ABC Energy

REPORT NUMBER – PQ-15380

POWER QUALITY TEST REPORT

Client Information

Client Name	ABC Energy
Client Address	30 Fir St, Northsea 3759
Contact Person	Jonathan Lee
Contact Phone Number	03 8665 7777

Test Object: Arcanola Pty Ltd, Whittlesea

Test date: 12-Jan-18

Test Performed by **Lahiru Wijesinghe**

Prepared by: Steve John Bsc.Eng (Hons)	
Approved By: Sean Senarathne Bsc.Eng(Hons)	
Date	15-Jan-18

Instrument Information

Model Number	435-II
Serial Number	37143118
Firmware Revision	V05.00

Software Information

Power Log Version	5.2
FLUKE 430-II DLL Version	1.2.0.12

General Information

Recording location	30 Fir St, northsea 3753
Client	ABC ENERGY
Notes	ARCANOLA PTY LTD

Measurement Summary

Measurement topology	Wye mode
Application mode	Logger
First recording	12/01/2018 10:47:44 AM 769msec
Last recording	12/01/2018 2:46:44 PM 769msec
Recording interval	0h 1m 0s 0msec
Nominal Voltage	230 V
Nominal Current	300 A
Nominal Frequency	50 Hz
File start time	12/01/2018 10:46:44 AM 769msec
File end time	12/01/2018 2:46:44 PM 769msec
Duration	0d 4h 0m 0s 0msec
Number of events	Normal: 0 Detailed: 0
Events downloaded	No
Number of screens	6
Screens downloaded	Yes
Power measurement method	Classic
Cable type	Copper
Harmonic scale	%H1
THD mode	THD 40
CosPhi / DPF mode	Cos Phi

Scaling

Phase:	
Current Clamp type	i430TF
Clamp range	N/A
Nominal range	300 A
Sensitivity	x10 AC only
Current ratio	1:1
Voltage ratio	1:1
Neutral:	
Current Clamp type	i430TF
Clamp range	N/A
Nominal range	300 A
Sensitivity	x10 AC only
Current ratio	1:1
Voltage ratio	1:1

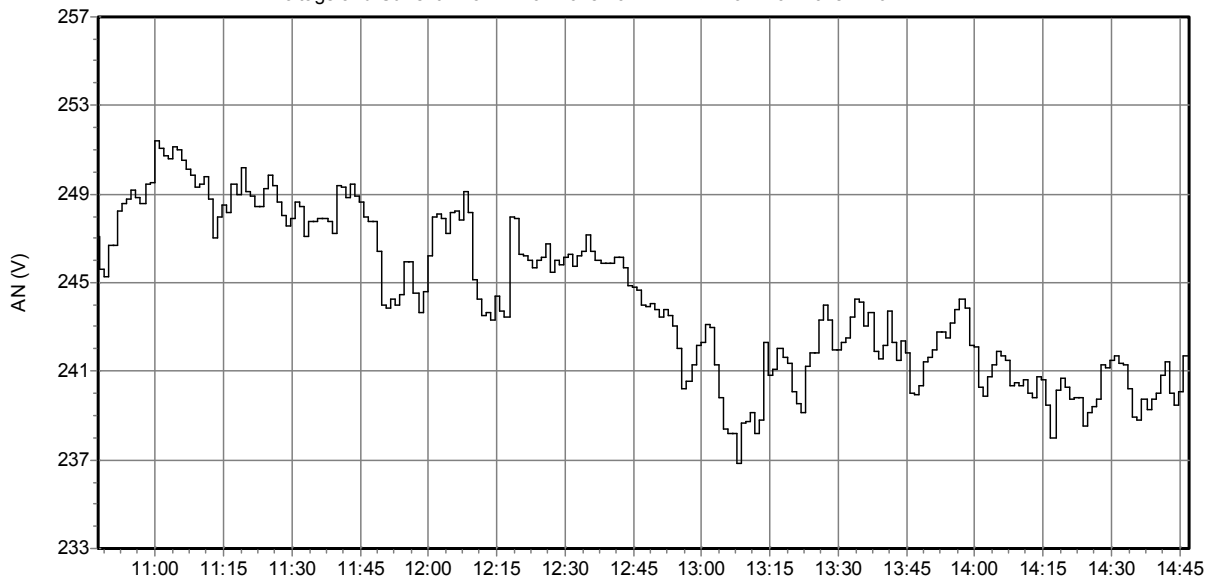
Recording Summary

RMS recordings	240
DC recordings	0
Frequency recordings	240
Unbalance recordings	0
Harmonic recordings	0
Power harmonic recordings	0
Power recordings	240
Power unbalance recordings	0
Energy recordings	0
Energy losses recordings	0
Flicker recordings	0
Mains signaling recordings	0

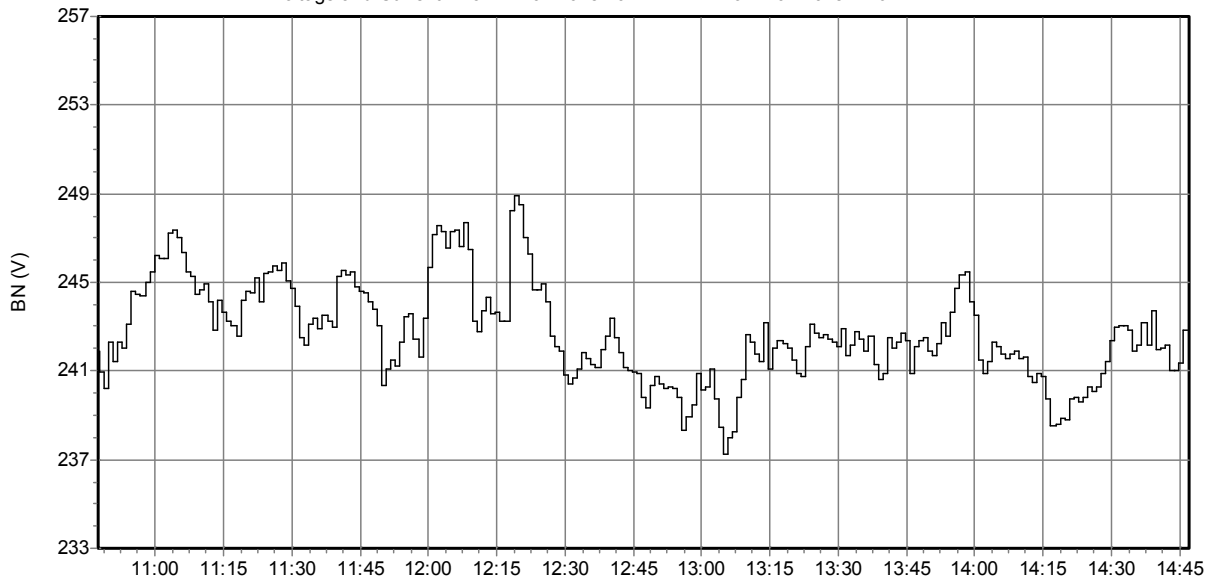
Events Summary

Dips	0
Swells	0
Transients	0
Interruptions	0
Voltage profiles	0
Rapid voltage changes	0
Screens	6
Waveforms	0
Intervals without measurements	0
Inrush current graphics	0
Wave events	0
RMS events	0

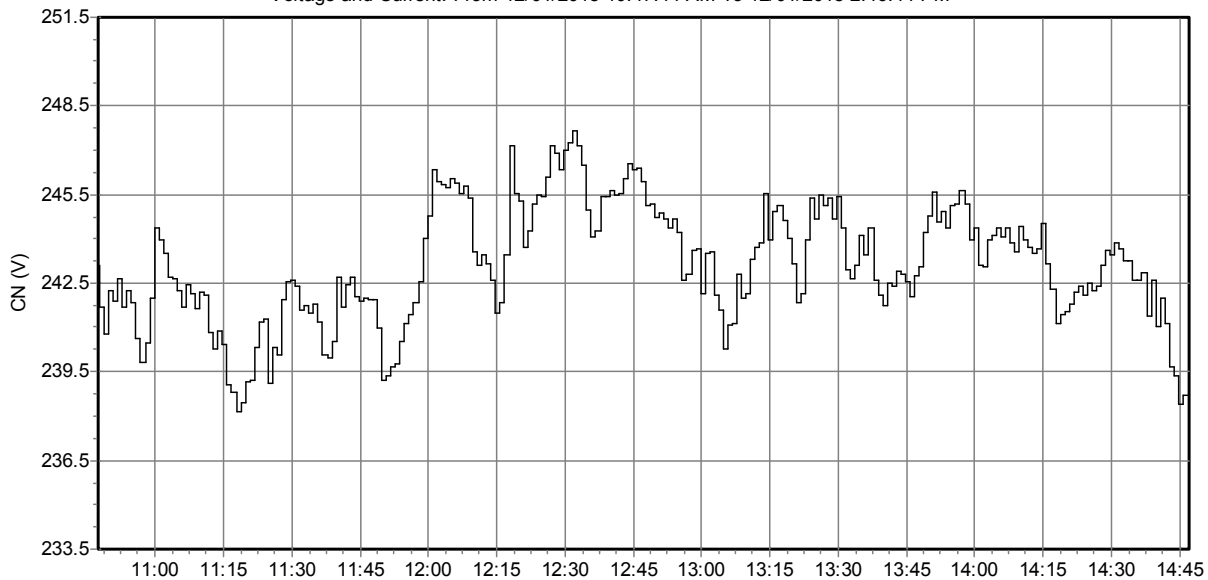
Voltage and Current. From 12/01/2018 10:47:44 AM To 12/01/2018 2:46:44 PM



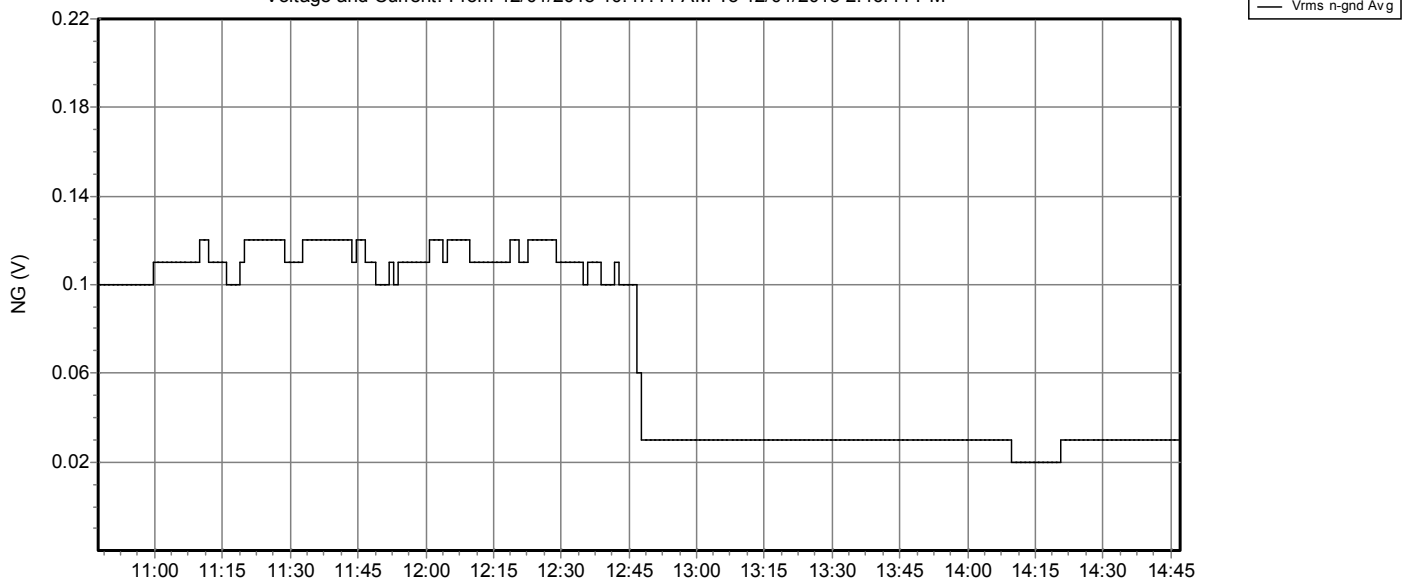
Voltage and Current. From 12/01/2018 10:47:44 AM To 12/01/2018 2:46:44 PM



Voltage and Current. From 12/01/2018 10:47:44 AM To 12/01/2018 2:46:44 PM



Voltage and Current. From 12/01/2018 10:47:44 AM To 12/01/2018 2:46:44 PM



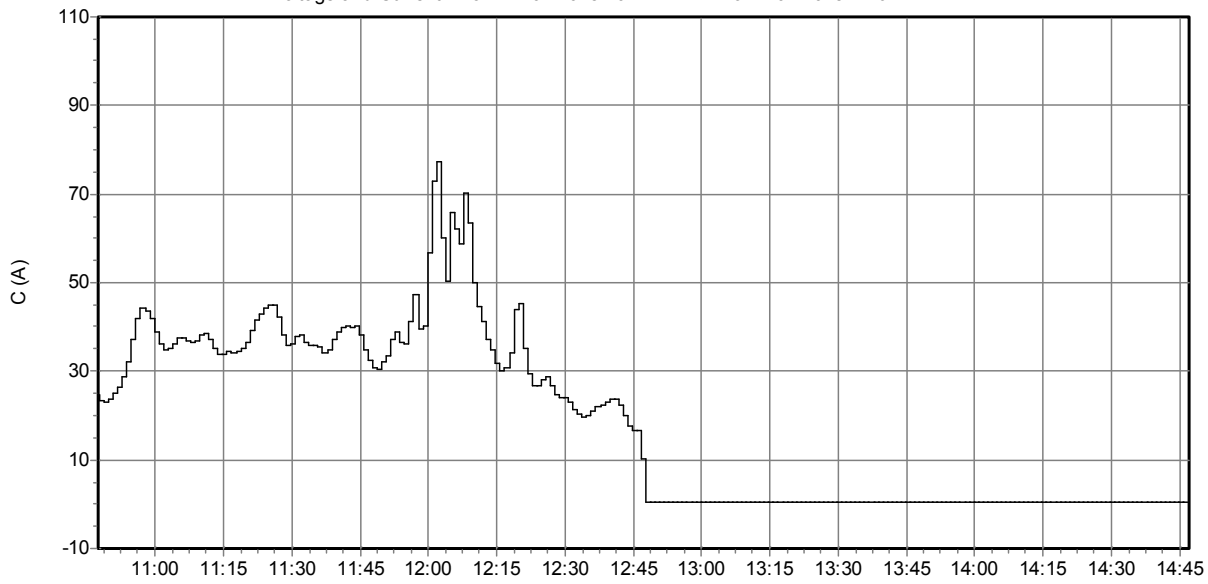
Voltage and Current. From 12/01/2018 10:47:44 AM To 12/01/2018 2:46:44 PM



Voltage and Current. From 12/01/2018 10:47:44 AM To 12/01/2018 2:46:44 PM



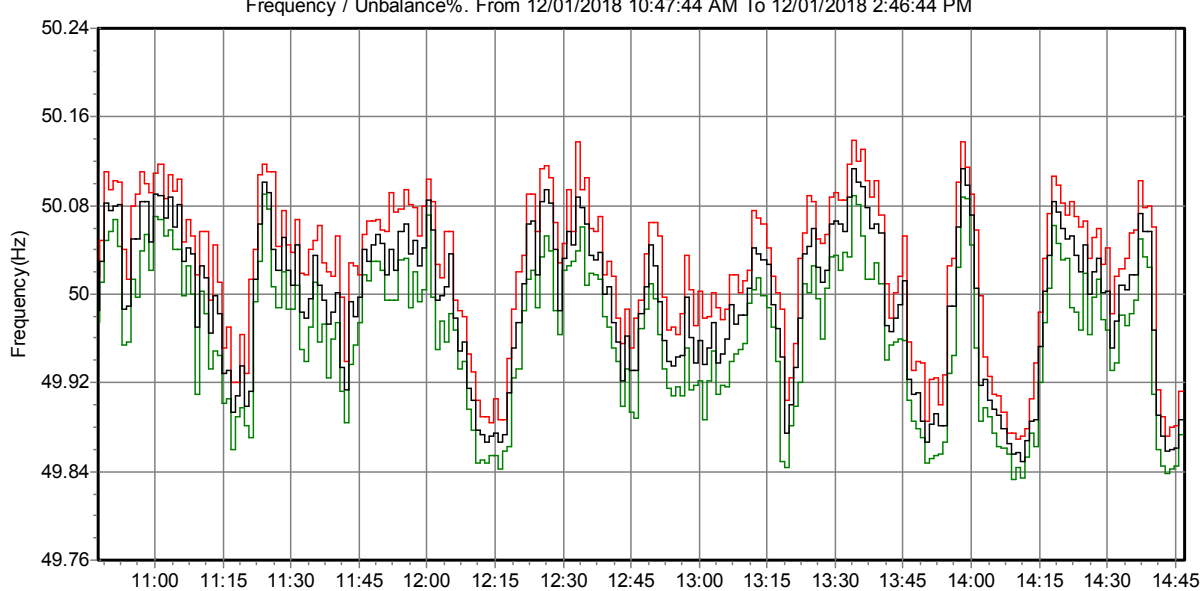
Voltage and Current. From 12/01/2018 10:47:44 AM To 12/01/2018 2:46:44 PM

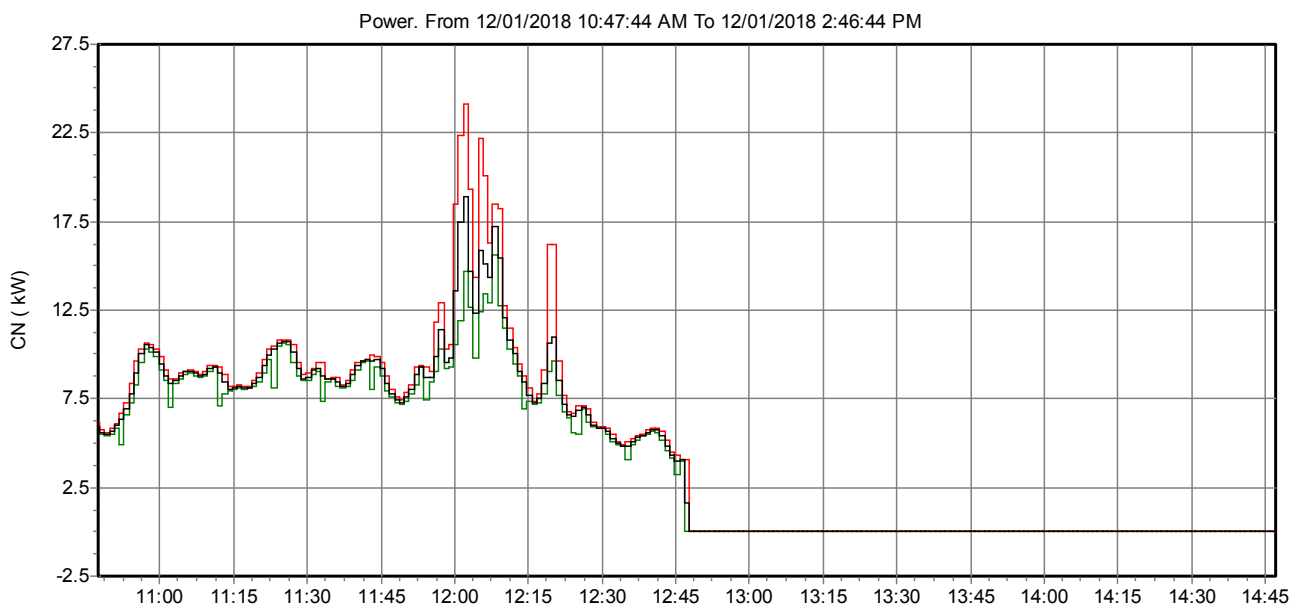
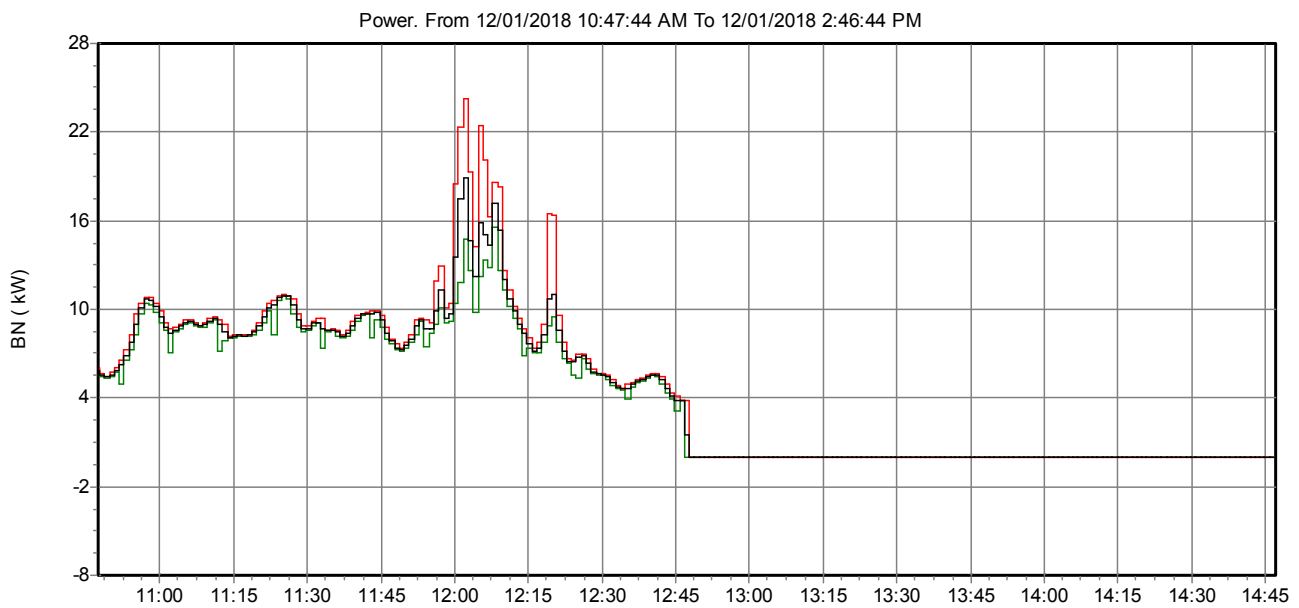
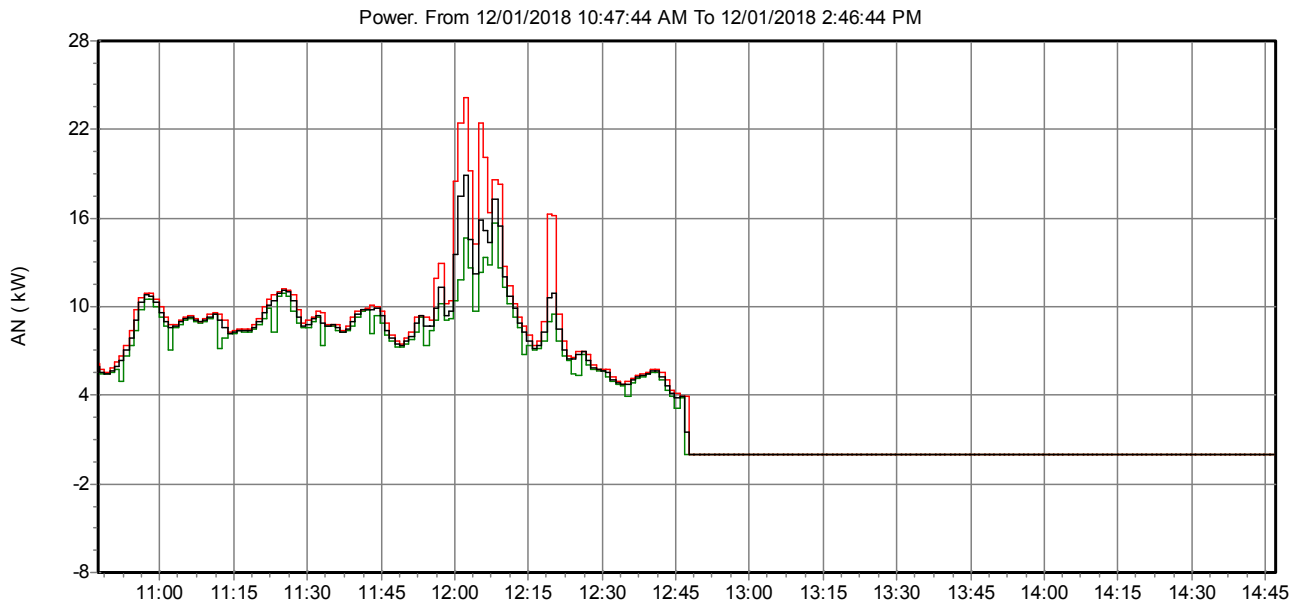


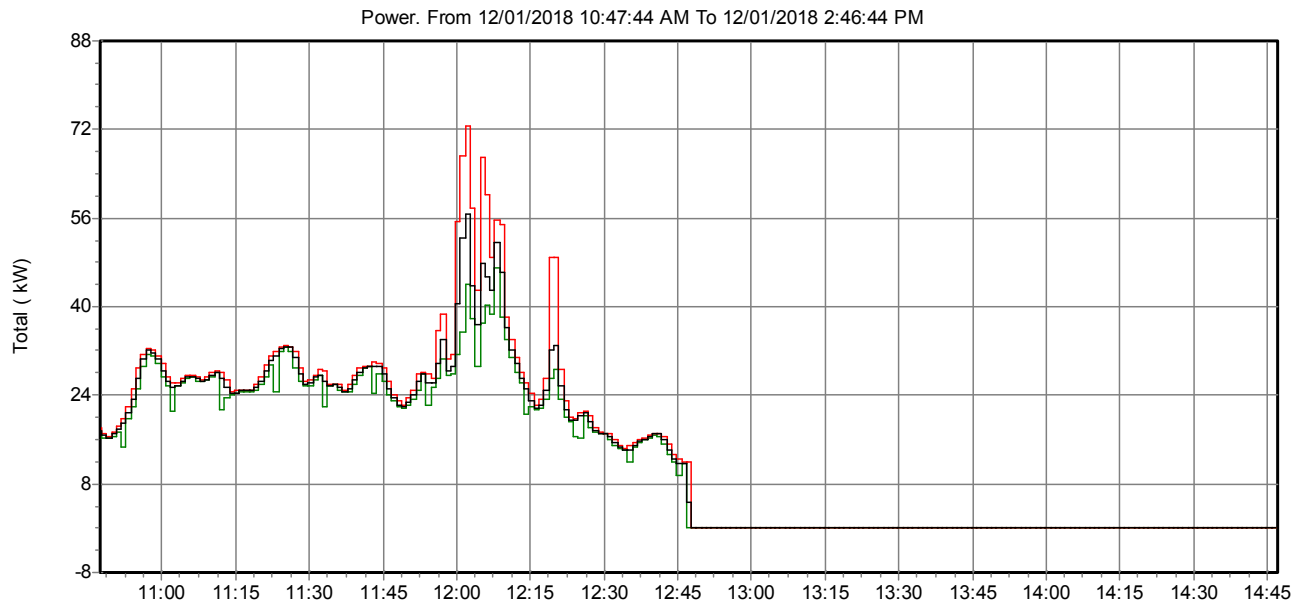
Voltage and Current. From 12/01/2018 10:47:44 AM To 12/01/2018 2:46:44 PM



Frequency / Unbalance%. From 12/01/2018 10:47:44 AM To 12/01/2018 2:46:44 PM







Date	Time	Phase A (Red)			Phase B (White)			Phase C (Blue)			Neutral		Frequency
		Vrms ph-n AN Avg (V)	Current A Avg (A)	Apparent Power AN Avg (VA)	Vrms ph-n BN Avg (V)	Current B Avg (A)	Apparent Power BN Avg (VA)	Vrms ph-n CN Avg (V)	Current C Avg (A)	Apparent Power CN Avg (VA)	Vrms ph-n NG Avg (V)	Current N Avg (A)	Frequency Avg (Hz)
Inveters ON													
12/01/2018	10:47:44 AM.769	247.07	24.2	5980	241.88	24.3	5880	243.11	24.7	6000	0.1	1.8	49.985
12/01/2018	10:48:44 AM.769	245.6	23	5660	240.94	23.1	5570	241.71	23.5	5670	0.1	1.9	50.029
12/01/2018	10:49:44 AM.769	245.24	22.6	5540	240.24	22.7	5440	240.78	23	5540	0.1	1.8	50.082
12/01/2018	10:50:44 AM.769	246.71	23.2	5730	242.29	23.3	5650	242.24	23.7	5730	0.1	1.9	50.075
12/01/2018	10:51:44 AM.769	246.71	24.4	6030	241.46	24.5	5920	241.89	24.9	6020	0.1	1.9	50.079
12/01/2018	10:52:44 AM.769	248.23	25.8	6410	242.31	25.9	6280	242.64	26.3	6370	0.1	1.9	50.081
12/01/2018	10:53:44 AM.769	248.54	28.5	7070	242.03	28.5	6910	241.69	28.9	6990	0.1	1.9	49.986
12/01/2018	10:54:44 AM.769	248.78	31.9	7920	243.09	32	7770	242.25	32.3	7830	0.1	1.9	49.989
12/01/2018	10:55:44 AM.769	249.16	36.7	9130	244.62	36.8	9000	241.84	37.2	8980	0.1	2	50.05
12/01/2018	10:56:44 AM.769	248.87	41.5	10330	244.45	41.7	10180	240.62	42	10100	0.1	2	50.05
12/01/2018	10:57:44 AM.769	248.57	43.7	10860	244.39	43.9	10730	239.8	44.2	10590	0.1	2	50.083
12/01/2018	10:58:44 AM.769	249.48	43.1	10760	245.02	43.3	10620	240.49	43.5	10470	0.1	2	50.084
12/01/2018	10:59:44 AM.769	249.54	41.6	10380	245.46	41.8	10260	241.97	42	10170	0.1	2	50.047
12/01/2018	11:00:44 AM.769	251.42	38.4	9650	246.2	38.5	9480	244.37	38.9	9500	0.11	2	50.091
12/01/2018	11:01:44 AM.769	251.04	35.8	8990	246.08	35.9	8840	243.98	36.3	8850	0.11	2	50.089
12/01/2018	11:02:44 AM.769	250.71	34.3	8590	246.08	34.4	8470	243.5	34.7	8450	0.11	2	50.069
12/01/2018	11:03:44 AM.769	250.6	34.9	8740	247.2	35	8660	242.68	35.3	8570	0.11	2.1	50.087
12/01/2018	11:04:44 AM.769	251.14	35.9	9000	247.38	36	8910	242.67	36.3	8810	0.11	2	50.061
12/01/2018	11:05:44 AM.769	250.99	36.9	9270	247.03	37.1	9160	242.26	37.4	9060	0.11	2.1	50.081
12/01/2018	11:06:44 AM.769	250.54	37.1	9310	246.32	37.3	9190	241.68	37.6	9090	0.11	2.1	50.029
12/01/2018	11:07:44 AM.769	250.13	36.5	9130	245.49	36.6	8990	242.45	37	8960	0.11	2.1	50.042
12/01/2018	11:08:44 AM.769	249.84	36	9000	245.26	36.2	8870	242.17	36.5	8840	0.11	2.1	50.037
12/01/2018	11:09:44 AM.769	249.33	36.6	9120	244.49	36.7	8980	241.64	37	8950	0.11	2.1	49.971
12/01/2018	11:10:44 AM.769	249.47	37.6	9380	244.68	37.8	9240	242.2	38.1	9220	0.12	2.1	50.026
12/01/2018	11:11:44 AM.769	249.79	38.3	9560	244.92	38.4	9410	242.12	38.7	9380	0.12	2.1	50.015
12/01/2018	11:12:44 AM.769	248.8	36.9	9160	244.09	37	9030	240.84	37.3	8980	0.11	2	49.965
12/01/2018	11:13:44 AM.769	247.03	34.8	8590	242.83	34.9	8480	240.3	35.2	8460	0.11	2	49.999
12/01/2018	11:14:44 AM.769	248	33.2	8240	244.22	33.3	8140	240.9	33.7	8110	0.11	2	49.982
12/01/2018	11:15:44 AM.769	248.51	33.4	8310	243.63	33.5	8170	240.44	33.8	8140	0.11	2	49.928
12/01/2018	11:16:44 AM.769	248.19	34.1	8460	243.26	34.2	8320	239.04	34.5	8240	0.1	2	49.931
12/01/2018	11:17:44 AM.769	249.46	33.9	8450	243.07	34	8260	238.81	34.3	8190	0.1	2	49.893
12/01/2018	11:18:44 AM.769	249	34	8460	242.55	34.1	8270	238.13	34.4	8190	0.1	2	49.908
12/01/2018	11:19:44 AM.769	250.21	34.7	8680	244.19	34.8	8500	238.44	35.1	8370	0.11	1.9	49.935
12/01/2018	11:20:44 AM.769	249.14	36.1	9000	244.59	36.3	8870	239.14	36.6	8740	0.12	1.9	49.899
12/01/2018	11:21:44 AM.769	248.88	38.7	9630	244.54	38.9	9500	239.2	39.2	9370	0.12	1.9	49.913
12/01/2018	11:22:44 AM.769	248.46	41	10190	245.19	41.2	10100	240.32	41.5	9980	0.12	1.9	50.014
12/01/2018	11:23:44 AM.769	248.47	42.3	10490	244.15	42.5	10360	241.18	42.8	10320	0.12	1.8	50.064
12/01/2018	11:24:44 AM.769	249.26	43.9	10930	245.43	44.1	10810	241.28	44.4	10710	0.12	1.9	50.101
12/01/2018	11:25:44 AM.769	249.86	44.6	11150	245.46	44.8	10990	239.1	45.1	10780	0.12	1.9	50.092
12/01/2018	11:26:44 AM.769	249.38	44.3	11040	245.72	44.4	10920	240.32	44.8	10760	0.12	1.9	50.04
12/01/2018	11:27:44 AM.769	248.61	41.9	10410	245.57	42.1	10320	240.05	42.4	10170	0.12	1.9	50.022
12/01/2018	11:28:44 AM.769	248.05	37.6	9330	245.91	37.8	9290	241.95	38.1	9220	0.12	1.8	50.051
12/01/2018	11:29:44 AM.769	247.56	35.3	8730	245.07	35.4	8670	242.56	35.8	8690	0.11	1.8	50.022
12/01/2018	11:30:44 AM.769	247.91	35.6	8840	244.76	35.7	8740	242.62	36.2	8780	0.11	1.8	50.008
12/01/2018	11:31:44 AM.769	248.62	37.2	9240	243.93	37.2	9080	242.42	37.7	9140	0.11	1.8	50.045
12/01/2018	11:32:44 AM.769	248.46	37.8	9380	242.49	37.8	9170	241.61	38.3	9250	0.11	1.8	49.984
12/01/2018	11:33:44 AM.769	247.08	36.1	8920	242.2	36.2	8760	241.73	36.6	8850	0.12	1.8	49.978
12/01/2018	11:34:44 AM.769	247.77	35.2	8730	243.11	35.3	8570	241.51	35.7	8620	0.12	1.8	49.996
12/01/2018	11:35:44 AM.769	247.75	35.5	8790	243.38	35.5	8640	241.8	35.9	8690	0.12	1.8	50.035
12/01/2018	11:36:44 AM.769	247.88	34.9	8650	242.93	35	8490	241.19	35.4	8530	0.12	1.8	50.008
12/01/2018	11:37:44 AM.769	247.89	33.7	8360	243.52	33.8	8230	240.09	34.2	8210	0.12	1.8	49.995
12/01/2018	11:38:44 AM.769	247.79	34.5	8550	243.24	34.6	8410	239.97	34.9	8380	0.12	1.8	49.973
12/01/2018	11:39:44 AM.769	247.23	36.6	9040	242.98	36.7	8930	240.55	37.1	8920	0.12	1.9	49.984
12/01/2018	11:40:44 AM.769	249.4	38.3	9540	245.3	38.5	9430	242.68	38.8	9410	0.12	1.9	50.001
12/01/2018	11:41:44 AM.769	249.33	39.4	9820	245.52	39.6	9730	241.68	39.9	9640	0.12	1.9	49.934
12/01/2018	11:42:44 AM.769	248.86	39.6	9850	245.36	39.8	9770	242.46	40.1	9720	0.12	1.9	49.914
12/01/2018	11:43:44 AM.769	249.47	39.3	9810	245.48	39.6	9720	242.7	39.9	9680	0.12	1.9	49.993
12/01/2018	11:44:44 AM.769	248.88	39.8	9900	244.82	40	9790	242.02	40.3	9760	0.11	1.8	49.98

12/01/2018	12:48:44 PM.769	243.9	0.4	90	239.37	0.3	60	245.14	0.3	70	0.03	0.3	50.007
12/01/2018	12:49:44 PM.769	244.06	0.4	100	240.36	0.3	70	245.18	0.3	70	0.03	0.3	50.045
12/01/2018	12:50:44 PM.769	243.81	0.4	90	240.75	0.3	70	244.72	0.3	70	0.03	0.3	50.025
12/01/2018	12:51:44 PM.769	243.47	0.4	90	240.39	0.3	60	244.86	0.3	70	0.03	0.3	49.993
12/01/2018	12:52:44 PM.769	243.77	0.4	90	240.18	0.3	60	244.68	0.3	70	0.03	0.3	49.958
12/01/2018	12:53:44 PM.769	243.52	0.4	90	240.31	0.3	70	244.39	0.3	70	0.03	0.3	49.94
12/01/2018	12:54:44 PM.769	243.07	0.4	90	240.23	0.3	60	244.65	0.3	70	0.03	0.3	49.935
12/01/2018	12:55:44 PM.769	242.02	0.4	90	239.78	0.3	70	244.24	0.3	70	0.03	0.3	49.943
12/01/2018	12:56:44 PM.769	240.19	0.4	90	238.3	0.3	70	242.58	0.3	70	0.03	0.3	49.945
12/01/2018	12:57:44 PM.769	240.58	0.4	90	238.91	0.3	70	242.8	0.3	70	0.03	0.3	49.997
12/01/2018	12:58:44 PM.769	241.32	0.4	90	239.44	0.3	70	243.59	0.3	70	0.03	0.3	49.961
12/01/2018	12:59:44 PM.769	242.2	0.4	90	240.91	0.3	70	243.64	0.3	70	0.03	0.3	49.938
12/01/2018	1:00:44 PM.769	242.33	0.4	90	240.12	0.3	60	242.15	0.3	70	0.03	0.3	49.958
12/01/2018	1:01:44 PM.769	243.1	0.4	90	240.3	0.3	70	243.5	0.3	70	0.03	0.3	49.936
12/01/2018	1:02:44 PM.769	242.98	0.4	90	241.07	0.3	70	243.57	0.3	70	0.03	0.3	49.951
12/01/2018	1:03:44 PM.769	241.31	0.4	90	239.73	0.3	60	242.1	0.3	70	0.03	0.3	49.975
12/01/2018	1:04:44 PM.769	239.84	0.4	90	238.45	0.3	70	241.6	0.3	70	0.03	0.3	49.938
12/01/2018	1:05:44 PM.769	238.42	0.4	90	237.25	0.3	60	240.3	0.3	70	0.03	0.3	49.946
12/01/2018	1:06:44 PM.769	238.2	0.4	90	238.02	0.3	60	241.1	0.3	70	0.03	0.3	49.96
12/01/2018	1:07:44 PM.769	238.16	0.4	90	238.25	0.3	60	241.11	0.3	70	0.03	0.3	49.99
12/01/2018	1:08:44 PM.769	236.87	0.4	90	239.78	0.3	60	242.82	0.3	70	0.03	0.3	49.973
12/01/2018	1:09:44 PM.769	238.64	0.4	90	240.65	0.3	70	241.99	0.3	70	0.03	0.3	49.981
12/01/2018	1:10:44 PM.769	238.74	0.4	90	242.65	0.3	60	242.17	0.3	70	0.03	0.3	49.981
12/01/2018	1:11:44 PM.769	239.14	0.4	90	242.27	0.3	70	243.32	0.3	70	0.03	0.3	50.006
12/01/2018	1:12:44 PM.769	238.16	0.4	100	241.78	0.3	60	243.71	0.3	70	0.03	0.3	50.042
12/01/2018	1:13:44 PM.769	238.82	0.4	90	241.43	0.3	70	243.89	0.3	70	0.03	0.3	50.036
12/01/2018	1:14:44 PM.769	242.29	0.4	90	243.17	0.3	60	245.54	0.3	70	0.03	0.3	50.031
12/01/2018	1:15:44 PM.769	240.8	0.4	90	241.09	0.3	60	243.96	0.3	70	0.03	0.3	50.027
12/01/2018	1:16:44 PM.769	241.08	0.4	90	242.02	0.3	60	244.91	0.3	70	0.03	0.3	49.99
12/01/2018	1:17:44 PM.769	242.06	0.4	90	242.36	0.3	70	245.14	0.3	70	0.03	0.2	49.969
12/01/2018	1:18:44 PM.769	241.6	0.4	90	242.24	0.3	60	244.63	0.3	70	0.03	0.3	49.944
12/01/2018	1:19:44 PM.769	241.33	0.4	90	242.05	0.3	70	244.01	0.3	70	0.03	0.3	49.874
12/01/2018	1:20:44 PM.769	240.08	0.4	90	241.48	0.3	70	243.14	0.3	70	0.03	0.3	49.9
12/01/2018	1:21:44 PM.769	239.52	0.4	90	240.9	0.3	70	241.84	0.3	70	0.03	0.3	49.934
12/01/2018	1:22:44 PM.769	239.11	0.4	90	240.77	0.3	70	242.14	0.3	70	0.03	0.3	49.978
12/01/2018	1:23:44 PM.769	241.21	0.4	90	242.09	0.3	70	243.99	0.3	70	0.03	0.3	50.037
12/01/2018	1:24:44 PM.769	241.84	0.4	90	243.11	0.3	60	245.36	0.3	70	0.03	0.3	50.043
12/01/2018	1:25:44 PM.769	241.84	0.4	90	242.72	0.3	70	244.66	0.3	70	0.03	0.3	50.059
12/01/2018	1:26:44 PM.769	243.32	0.4	90	242.5	0.3	70	245.5	0.3	70	0.03	0.3	50.024
12/01/2018	1:27:44 PM.769	243.98	0.4	90	242.61	0.3	70	245.15	0.3	70	0.03	0.3	50.011
12/01/2018	1:28:44 PM.769	243.3	0.4	90	242.47	0.3	70	245.36	0.3	70	0.03	0.2	50.022
12/01/2018	1:29:44 PM.769	241.94	0.4	90	242.33	0.3	70	244.69	0.3	70	0.03	0.3	50.063
12/01/2018	1:30:44 PM.769	241.96	0.4	90	242.07	0.3	70	245.41	0.3	70	0.03	0.3	50.066
12/01/2018	1:31:44 PM.769	242.28	0.4	90	242.9	0.3	60	244.35	0.3	70	0.03	0.3	50.063
12/01/2018	1:32:44 PM.769	242.5	0.4	90	241.68	0.3	70	242.95	0.3	70	0.03	0.3	50.056
12/01/2018	1:33:44 PM.769	243.48	0.4	90	242.14	0.3	60	242.66	0.3	70	0.03	0.3	50.087
12/01/2018	1:34:44 PM.769	244.24	0.4	90	242.75	0.3	70	243.1	0.3	70	0.03	0.3	50.113
12/01/2018	1:35:44 PM.769	244.14	0.4	90	242.47	0.3	70	244.1	0.3	70	0.03	0.3	50.101
12/01/2018	1:36:44 PM.769	243.03	0.4	90	241.89	0.3	70	243.47	0.3	70	0.03	0.3	50.097
12/01/2018	1:37:44 PM.769	243.63	0.4	90	242.59	0.3	70	244.35	0.3	70	0.03	0.3	50.078
12/01/2018	1:38:44 PM.769	241.89	0.4	90	241.32	0.3	70	242.58	0.3	70	0.03	0.3	50.059
12/01/2018	1:39:44 PM.769	241.54	0.4	90	240.64	0.3	60	242.09	0.3	70	0.03	0.3	50.064
12/01/2018	1:40:44 PM.769	242.16	0.4	90	240.86	0.3	60	241.75	0.3	70	0.03	0.3	50.055
12/01/2018	1:41:44 PM.769	243.75	0.4	90	242.52	0.3	70	242.5	0.3	70	0.03	0.3	49.972
12/01/2018	1:42:44 PM.769	242.31	0.4	90	242.05	0.3	60	242.39	0.3	70	0.03	0.2	49.966
12/01/2018	1:43:44 PM.769	241.5	0.4	90	242.28	0.3	70	242.88	0.3	70	0.03	0.3	49.979
12/01/2018	1:44:44 PM.769	242.39	0.4	90	242.71	0.3	70	242.79	0.3	70	0.03	0.3	49.99
12/01/2018	1:45:44 PM.769	241.82	0.4	90	242.34	0.3	70	242.57	0.3	70	0.03	0.3	50.012
12/01/2018	1:46:44 PM.769	240.01	0.4	90	240.86	0.3	60	242.05	0.3	70	0.03	0.2	49.923
12/01/2018	1:47:44 PM.769	239.94	0.4	90	242.11	0.3	70	242.77	0.3	70	0.03	0.2	49.91
12/01/2018	1:48:44 PM.769	240.34	0.4	90	242.4	0.3	70	243.05	0.3	70	0.03	0.3	49.911
12/01/2018	1:49:44 PM.769	241.46	0.4	90	242.5	0.3	70	244.2	0.3	80	0.03	0.3	49.886
12/01/2018	1:50:44 PM.769	241.61	0.4	90	241.89	0.3	70	244.79	0.3	70	0.03	0.3	49.867
12/01/2018	1:51:44 PM.769	241.96	0.4	100	241.71	0.3	70	245.56	0.3	70	0.03	0.3	49.883

12/01/2018	1:52:44 PM.769	242.78	0.4	90	242.25	0.3	70	244.59	0.3	70	0.03	0.3	49.892
12/01/2018	1:53:44 PM.769	242.75	0.4	90	243.16	0.3	70	244.91	0.3	70	0.03	0.3	49.882
12/01/2018	1:54:44 PM.769	242.52	0.4	90	242.55	0.3	70	244.38	0.3	70	0.03	0.2	49.882
12/01/2018	1:55:44 PM.769	243.18	0.4	90	243.62	0.3	70	245.11	0.3	70	0.03	0.3	49.989
12/01/2018	1:56:44 PM.769	243.81	0.4	90	244.76	0.3	70	245.19	0.3	70	0.03	0.2	49.989
12/01/2018	1:57:44 PM.769	244.29	0.4	90	245.35	0.3	70	245.64	0.3	70	0.03	0.3	50.06
12/01/2018	1:58:44 PM.769	243.87	0.4	90	245.45	0.3	70	245.2	0.3	70	0.03	0.2	50.113
12/01/2018	1:59:44 PM.769	242.19	0.4	90	244.14	0.3	70	243.97	0.3	70	0.03	0.3	50.099
12/01/2018	2:00:44 PM.769	242.07	0.4	90	243.54	0.3	60	244.37	0.3	70	0.03	0.3	50.071
12/01/2018	2:01:44 PM.769	240.27	0.4	90	241.51	0.3	60	243.11	0.3	70	0.03	0.3	50.005
12/01/2018	2:02:44 PM.769	239.88	0.4	90	240.88	0.3	70	243.04	0.3	70	0.03	0.3	49.918
12/01/2018	2:03:44 PM.769	240.73	0.4	90	241.45	0.3	70	243.99	0.3	70	0.03	0.3	49.923
12/01/2018	2:04:44 PM.769	241.3	0.4	90	242.3	0.3	70	244.13	0.3	70	0.03	0.3	49.904
12/01/2018	2:05:44 PM.769	241.91	0.4	90	242.09	0.3	70	244.35	0.3	70	0.03	0.3	49.896
12/01/2018	2:06:44 PM.769	241.73	0.4	90	241.74	0.3	70	244.07	0.3	70	0.03	0.3	49.891
12/01/2018	2:07:44 PM.769	241.5	0.4	90	241.57	0.4	80	244.38	0.3	70	0.03	0.2	49.878
12/01/2018	2:08:44 PM.769	240.38	0.4	90	241.79	0.3	70	243.84	0.3	70	0.03	0.3	49.865
12/01/2018	2:09:44 PM.769	240.48	0.4	90	241.92	0.3	70	243.58	0.3	70	0.03	0.3	49.856
12/01/2018	2:10:44 PM.769	240.36	0.4	90	241.54	0.3	70	244.42	0.3	70	0.02	0.3	49.857
12/01/2018	2:11:44 PM.769	240.62	0.4	100	241.64	0.3	70	243.99	0.3	70	0.02	0.3	49.849
12/01/2018	2:12:44 PM.769	240.02	0.4	90	240.78	0.3	70	243.71	0.3	70	0.02	0.3	49.868
12/01/2018	2:13:44 PM.769	239.81	0.4	90	240.51	0.3	70	243.53	0.3	70	0.02	0.2	49.886
12/01/2018	2:14:44 PM.769	240.72	0.4	90	240.87	0.3	70	243.65	0.3	70	0.02	0.3	49.887
12/01/2018	2:15:44 PM.769	240.65	0.4	90	240.74	0.3	60	244.54	0.3	70	0.02	0.3	49.953
12/01/2018	2:16:44 PM.769	239.5	0.4	90	239.77	0.3	70	243.18	0.3	70	0.02	0.3	50.003
12/01/2018	2:17:44 PM.769	237.96	0.4	90	238.52	0.3	70	242.32	0.3	70	0.02	0.3	50.035
12/01/2018	2:18:44 PM.769	240.15	0.4	90	238.57	0.3	70	241.12	0.3	70	0.02	0.3	50.084
12/01/2018	2:19:44 PM.769	240.71	0.4	90	238.88	0.3	70	241.46	0.3	70	0.02	0.2	50.074
12/01/2018	2:20:44 PM.769	240.28	0.4	90	238.79	0.3	70	241.54	0.3	70	0.02	0.3	50.059
12/01/2018	2:21:44 PM.769	239.73	0.4	90	239.75	0.3	60	241.79	0.3	70	0.03	0.3	50.05
12/01/2018	2:22:44 PM.769	239.82	0.4	90	239.82	0.3	70	242.18	0.3	70	0.03	0.3	50.053
12/01/2018	2:23:44 PM.769	239.82	0.4	90	239.63	0.3	70	242.4	0.3	70	0.03	0.3	50.035
12/01/2018	2:24:44 PM.769	238.56	0.4	90	239.8	0.3	70	242.09	0.3	70	0.03	0.3	50.02
12/01/2018	2:25:44 PM.769	239.11	0.4	90	240.25	0.3	60	242.49	0.3	70	0.03	0.3	50.045
12/01/2018	2:26:44 PM.769	239.39	0.4	100	240.09	0.3	70	242.24	0.3	70	0.03	0.3	50
12/01/2018	2:27:44 PM.769	239.71	0.4	90	240.29	0.3	70	242.38	0.3	70	0.03	0.3	50.02
12/01/2018	2:28:44 PM.769	241.3	0.4	90	240.9	0.3	70	243.13	0.3	70	0.03	0.3	50.032
12/01/2018	2:29:44 PM.769	241.15	0.4	90	241.41	0.3	70	243.62	0.3	70	0.03	0.3	50.002
12/01/2018	2:30:44 PM.769	241.5	0.4	90	242.35	0.3	70	243.44	0.3	70	0.03	0.2	50.003
12/01/2018	2:31:44 PM.769	241.69	0.4	90	242.98	0.3	60	243.89	0.3	70	0.03	0.3	49.952
12/01/2018	2:32:44 PM.769	241.34	0.4	90	243.06	0.3	70	243.66	0.3	70	0.03	0.3	49.976
12/01/2018	2:33:44 PM.769	241.31	0.4	90	243.04	0.3	70	243.27	0.3	70	0.03	0.3	50.008
12/01/2018	2:34:44 PM.769	240.2	0.4	90	242.87	0.3	70	243.27	0.3	70	0.03	0.3	50.004
12/01/2018	2:35:44 PM.769	238.96	0.4	90	241.89	0.3	70	242.6	0.3	70	0.03	0.3	50.017
12/01/2018	2:36:44 PM.769	238.82	0.4	90	242.2	0.3	60	242.59	0.3	70	0.03	0.3	50.017
12/01/2018	2:37:44 PM.769	239.77	0.4	90	243.16	0.3	70	242.87	0.3	70	0.03	0.3	50.073
12/01/2018	2:38:44 PM.769	239.27	0.4	90	242.17	0.3	70	241.38	0.3	70	0.03	0.3	50.056
12/01/2018	2:39:44 PM.769	239.77	0.4	90	243.75	0.3	70	242.62	0.3	70	0.03	0.3	50.056
12/01/2018	2:40:44 PM.769	239.99	0.4	90	241.97	0.3	70	241.05	0.3	70	0.03	0.3	49.967
12/01/2018	2:41:44 PM.769	240.83	0.4	90	242.06	0.3	70	242	0.3	70	0.03	0.3	49.891
12/01/2018	2:42:44 PM.769	241.46	0.4	90	242.16	0.3	70	241.12	0.3	70	0.03	0.3	49.872
12/01/2018	2:43:44 PM.769	239.98	0.4	90	241	0.3	70	239.68	0.3	70	0.03	0.3	49.859
12/01/2018	2:44:44 PM.769	239.45	0.4	90	241.02	0.3	70	239.39	0.3	70	0.03	0.3	49.86
12/01/2018	2:45:44 PM.769	240.06	0.4	90	241.34	0.3	70	238.38	0.3	70	0.03	0.3	49.861
12/01/2018	2:46:44 PM.769	241.71	0.4	80	242.84	0.3	70	238.69	0.3	70	0.03	0.3	49.887



Head Office & Manufacturing Plant

Brown – Denarusha Pty Ltd.
5 Faigh Street
Mulgrave, VIC 3170

TEL - (03) 8544 3300
(03) 8787 5449

Email - info@dara-switchboards.com.au

Dara Switchboards Express Production Plant (DEPP)

28 Remount Way
Cranbourne West, VIC 3977

Dara Modular Switchboards Production Plant (DMPP)

26 Remount Way
Cranbourne West, VIC 3977