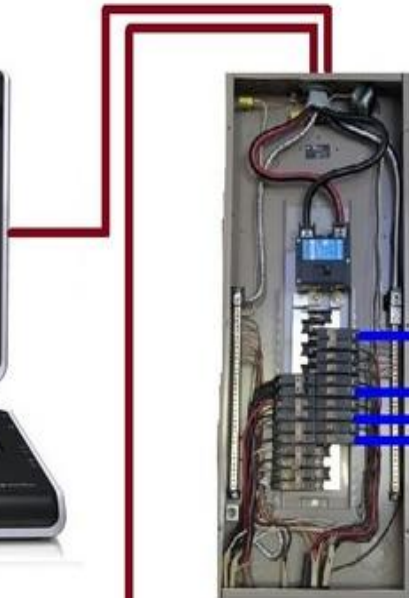




PowerSight



Dranetz Xplorer



Electric Panel



**G.E.S.P.E.R
240 1C Home Unit**



3HP 220V 1725RPM



1/2 HP 110V 3450RPM



1/2 HP 110V 3450RPM

Test 3 Screen Shot

(See video)

G.E.S.P.E.R. switched Off:

Screen Shot: 4:36 into video

Standard Power

	Watts	VA	VAR	TPF	DPF
A	778.5	1.029K	668.9	0.757	0.758
B	865.1	1.169K	782.7	0.740	0.741
C	<0.01	<0.01	<0.01	0.131	0.998
D	<0.01	<0.01	<0.01	-0.069	-0.879
Total	1.644K	2.193K	1.452K	0.750	0.075

G.E.S.P.E.R. switched Off:

Screen Shot: 5:02 into video

Standard Basic

	Volts	Amps
A	120.2	8.666
B	120.5	9.816
C	0.047	0.016
D	0.082	0.183

G.E.S.P.E.R. switched On:

Screen Shot: 4:41 into video

Standard Power

	Watts	VA	VAR	TPF	DPF
A	419.9	480.2	222.8	0.875	0.883
B	467.1	541.6	262.5	0.862	0.872
C	<0.01	<0.01	<0.01	0.159	0.973
D	<0.01	<0.01	<0.01	-0.111	-0.788
Total	887	1.011k	485.3	0.877	0.878

G.E.S.P.E.R. switched Off:

Screen Shot: 5:05 into video

Standard Basic

	Volts	Amps
A	120.6	4.085
B	120.9	4.600
C	0.047	0.016
D	0.082	0.092

Shop Test

Before

File C:\PowerSight\shoptest6 3 motors baseline.log
 Test began at 11/28/02 21:29:14
 Test ended at 11/28/02 21:49:14

After

File C:\PowerSight\shoptest6 with 3 motors.log
 Test began at 11/28/02 20:59:36
 Test ended at 11/28/02 21:19:36

<u>Measurement</u>	<u>Before</u>	<u>After</u>	<u>Units</u>	<u>Change</u>	<u>%Change</u>
Voltage, A Phase, Ave:	237.1	231.1	volts	-6.0	-2.5 %
Voltage, A Phase, Max:	239.6	232.6	volts	-7.0	-2.9 %
Voltage, B Phase, Ave:	119.3	116.3	volts	-3.0	-2.5 %
Voltage, B Phase, Max:	120.7	117.1	volts	-3.6	-3.0 %
Current, A Phase, Ave:	12.3	5.2	amps	-7.1	-57.9 %
Current, A Phase, Max:	12.5	5.3	amps	-7.2	-57.7 %
Current, B Phase, Ave:	12.2	5.1	amps	-7.1	-58.0 %
Current, B Phase, Max:	12.5	5.2	amps	-7.3	-58.1 %
True Power, A Phase, Ave:	333.2	269.2	Watts	-64.0	-19.2 %
True Power, A Phase, Max:	353.6	277.8	Watts	-75.8	-21.4 %
True Power, B Phase, Ave:	322.3	267.4	Watts	-54.9	-17.0 %
True Power, B Phase, Max:	337.4	274.6	Watts	-62.8	-18.6 %
VA Power, A Phase, Ave:	1444.9	593.0	VA	-851.9	-59.0 %
VA Power, B Phase, Ave:	1460.6	597.3	VA	-863.3	-59.1 %
Power Factor, A Phase, Ave:	0.23	0.45		0.22	96.6 %
Power Factor, B Phase, Ave:	0.22	0.45		0.23	103.7 %
Energy, A Phase:	0.111	0.090	KWH	-0.021	-19.2 %
Energy, B Phase:	0.107	0.089	KWH	-0.018	-17.0 %

Motor:	Test:	GESPER Unit:
1 - 3HP 220V Motor 1Phase	20 Minutes all motors on w/o GESPER	240 1C Home Unit
2 - 1/2HP 120V Motor 1Phase	20 Minutes all motors on with GESPER	80MFD Cap

Shop Test

Before

File C:\PowerSight\shoptest5baseline.log
 Test began at 11/28/02 20:13:47
 Test ended at 11/28/02 20:33:47

After

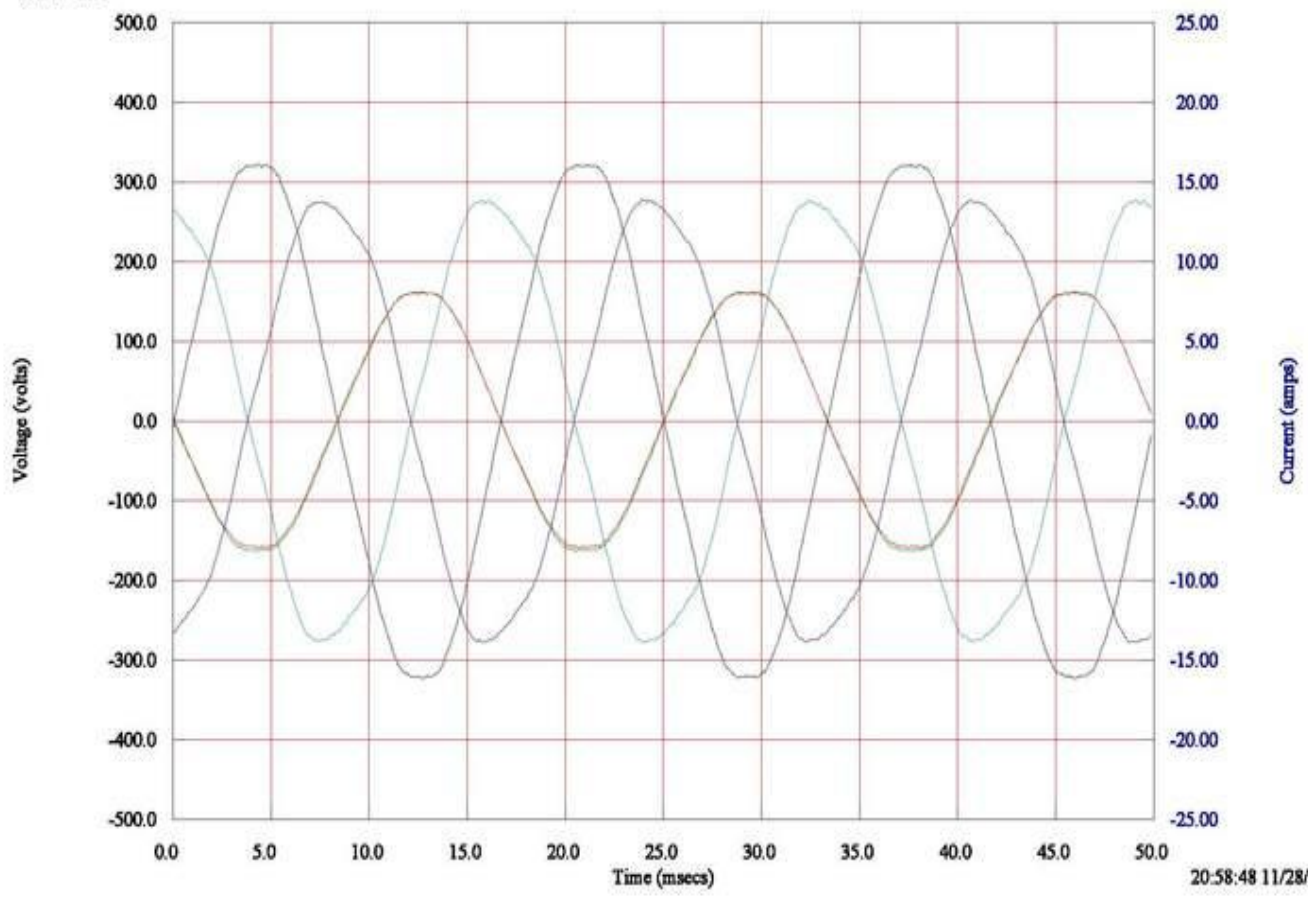
File C:\PowerSight\shoptest5 with.log
 Test began at 11/28/02 19:34:43
 Test ended at 11/28/02 19:54:43

<u>Measurement</u>	<u>Before</u>	<u>After</u>	<u>Units</u>	<u>Change</u>	<u>%Change</u>
Voltage, A Phase, Ave:	239.4	239.8	volts	0.4	0.1 %
Voltage, A Phase, Max:	240.7	241.5	volts	0.8	0.3 %
Voltage, B Phase, Ave:	120.1	120.1	volts	-0.0	-0.0 %
Voltage, B Phase, Max:	120.8	121.2	volts	0.4	0.3 %
Current, A Phase, Ave:	10.6	3.8	amps	-6.8	-64.1 %
Current, A Phase, Max:	10.7	3.9	amps	-6.8	-63.5 %
Current, B Phase, Ave:	10.5	3.8	amps	-6.8	-64.1 %
Current, B Phase, Max:	10.6	3.9	amps	-6.8	-63.5 %
True Power, A Phase, Ave:	226.5	194.0	Watts	-32.6	-14.4 %
True Power, A Phase, Max:	238.0	201.4	Watts	-36.6	-15.4 %
True Power, B Phase, Ave:	209.1	189.5	Watts	-19.6	-9.4 %
True Power, B Phase, Max:	216.2	197.2	Watts	-19.0	-8.8 %
VA Power, A Phase, Ave:	1259.0	453.6	VA	-805.5	-64.0 %
VA Power, B Phase, Ave:	1268.0	455.4	VA	-812.5	-64.1 %
Power Factor, A Phase, Ave:	0.18	0.43		0.25	138.0 %
Power Factor, B Phase, Ave:	0.17	0.42		0.25	151.2 %
Energy, A Phase:	0.076	0.065	KWH	-0.011	-14.4 %
Energy, B Phase:	0.070	0.063	KWH	-0.007	-9.4 %

Motor:	Test:	GESPER Unit:
1 - 3HP 220V Motor 1Phase	20 Minutes all motors on w/o GESPER	240 1C Home Unit
	20 Minutes all motors on with GESPER	80MFD Cap

File: shoptest5 baseline wave.wfm							
<input type="checkbox"/> Vab	<input type="checkbox"/> Ia	<input type="checkbox"/> Vbc	<input type="checkbox"/> Ib	<input type="checkbox"/> Vca	<input type="checkbox"/> Ic	True Power:	Total
231.8	9.9	116.7	9.9	115.2	0.0		373.6
1.4	1.4	1.4	1.4	1.4	0.0	True P.F.:	0.16

RMS Value:
Crest Factor

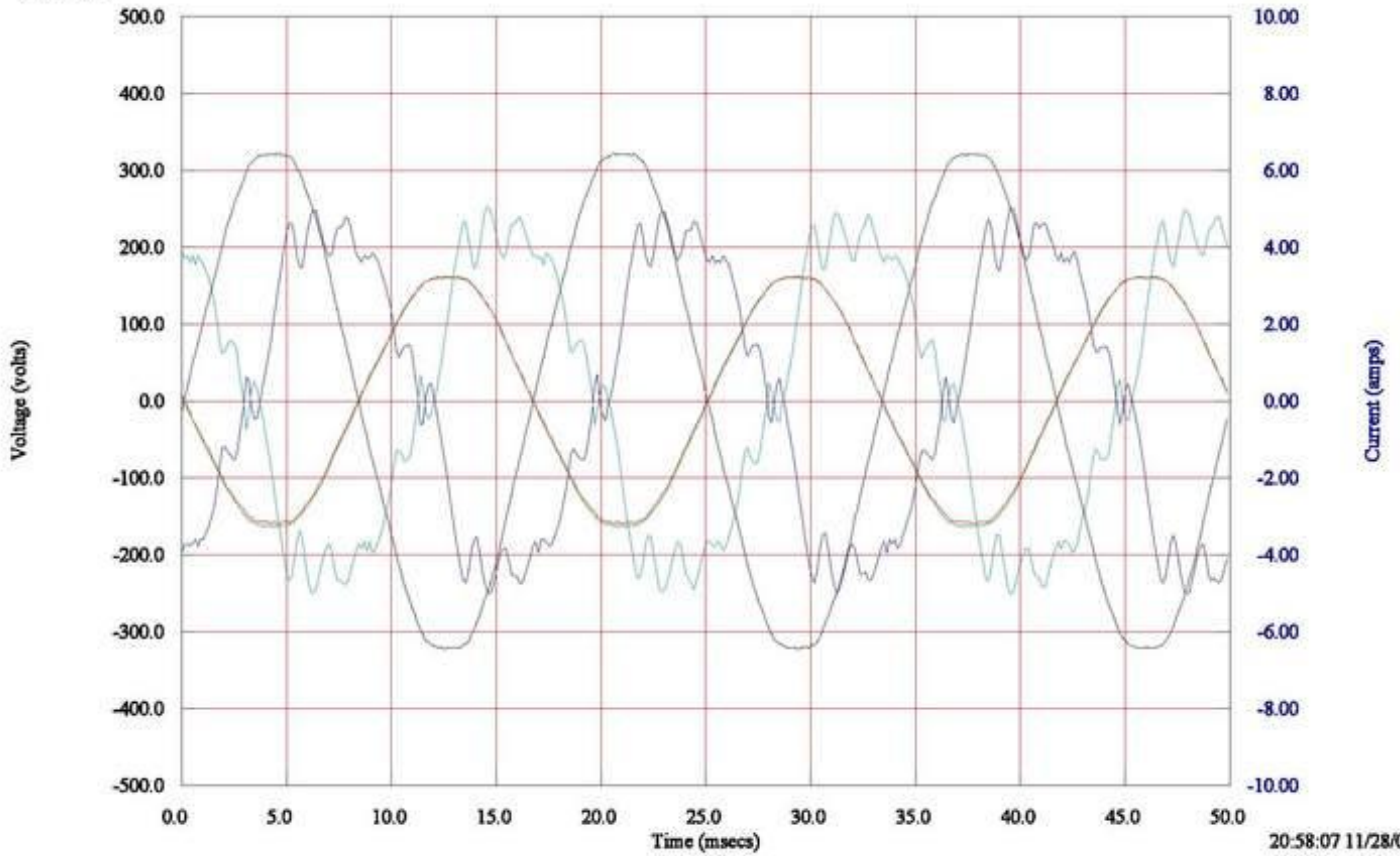


File: shoptest5 with wave.wfm

<input type="checkbox"/> Vab	<input type="checkbox"/> Ia	<input type="checkbox"/> Vbc	<input type="checkbox"/> Ib	<input type="checkbox"/> Vca	<input type="checkbox"/> Ic
232.2	3.3	116.7	3.4	115.4	0.0
1.4	1.5	1.4	1.5	1.4	0.0

True Power:	Total
True P.F.:	0.44

RMS Value:
Crest Factor

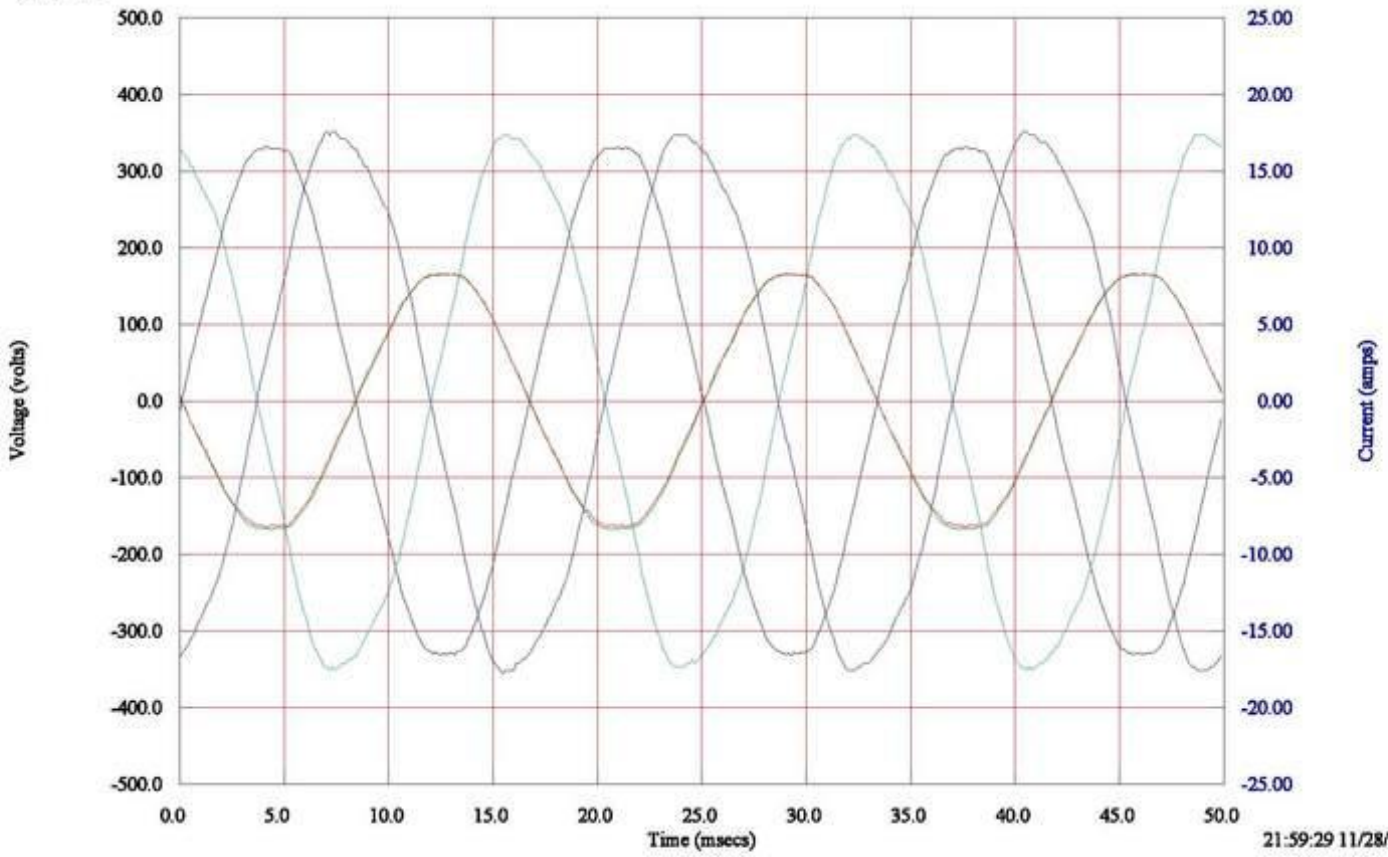


File: shoptest@baseline 3 motors wave.wfm

□ Vab	□ Ia	□ Vbc	□ Ib	□ Vca	□ Ic
238.3	12.4	119.9	12.4	118.4	0.0
1.4	1.4	1.4	1.4	1.4	0.0

Total
True Power: 657.8
True P.F.: 0.22

RMS Value:
Crest Factor

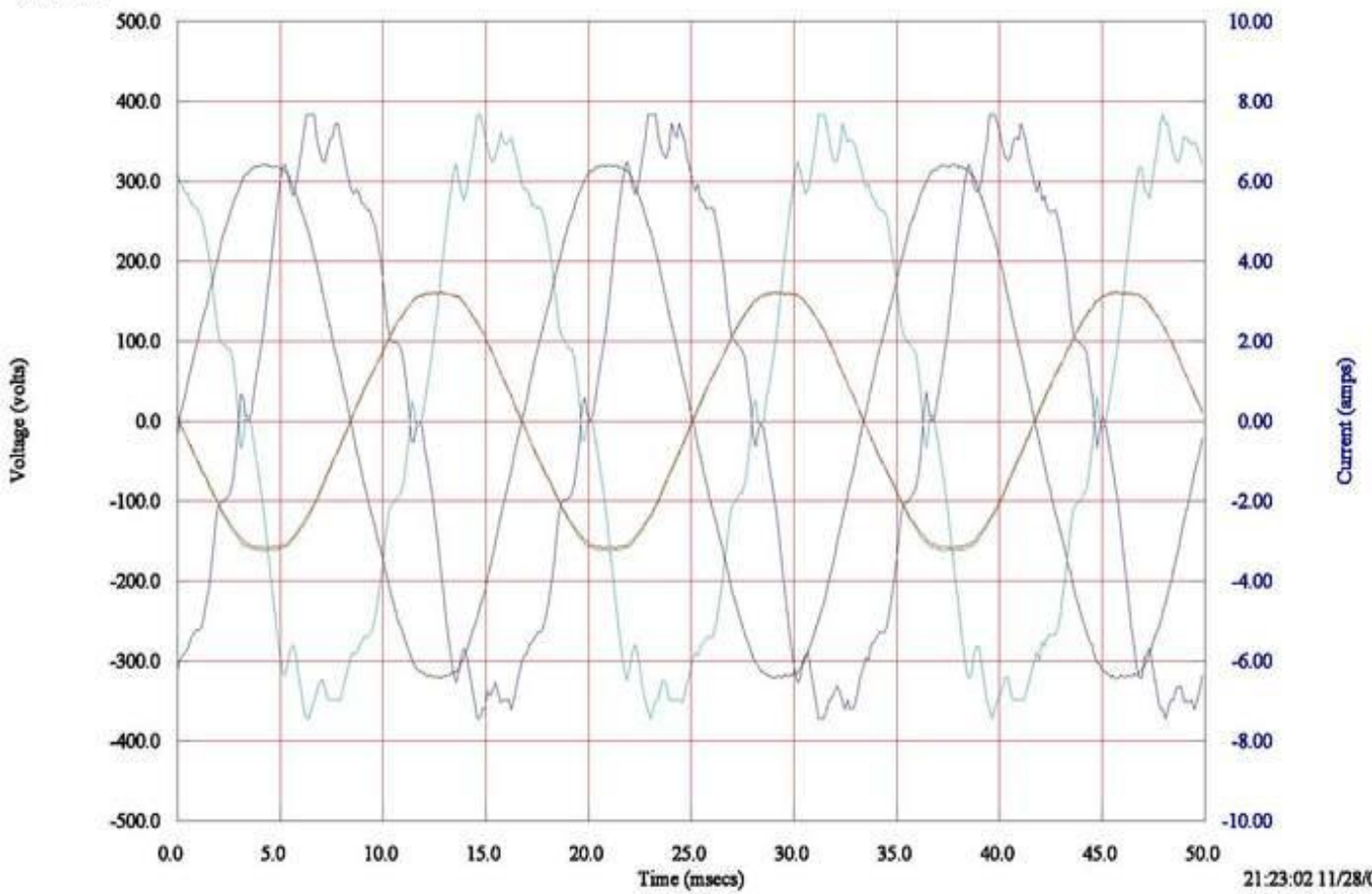


File: shoptest6with 3 motors wave.wfm

<input type="checkbox"/> Vab	<input type="checkbox"/> Ia	<input type="checkbox"/> Vbc	<input type="checkbox"/> Ib	<input type="checkbox"/> Vca	<input type="checkbox"/> Ic
230.7	5.1	116.0	5.1	114.8	0.0
1.4	1.5	1.4	1.5	1.4	0.0

Total
True Power: 519.8
True P.F.: 0.44

RMS Value:
Crest Factor



Test 3 Screen Shot

(See video)

G.E.S.P.E.R. switched Off:
Screen Shot: 4:36 into video
Standard Power

	Watts	VA	VAR	TPF	DPF
A	778.5	1.029K	668.9	0.757	0.758
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C	<0.01	<0.01	<0.01	0.131	0.998
D	<0.01	<0.01	<0.01	-0.069	-0.879
Total	1.644K	2.193K	1.452K	0.750	0.075

G.E.S.P.E.R. switched Off:
Screen Shot: 5:02 into video
Standard Basic

	Volts	Amps
A	120.2	8.666
B	120.5	9.816
C	0.047	0.016
D	0.082	0.183

G.E.S.P.E.R. switched On:
Screen Shot: 4:41 into video
Standard Power

	Watts	VA	VAR	TPF	DPF
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C	<0.01	<0.01	<0.01	0.159	0.973
D	<0.01	<0.01	<0.01	-0.111	-0.788
Total	887	1.011k	485.3	0.877	0.878

G.E.S.P.E.R. switched Off:
Screen Shot: 5:05 into video
Standard Basic

	Volts	Amps
A	120.6	4.085
B	120.9	4.600
C	0.047	0.016
D	0.082	0.092