

T e s t R e p o r t

Report No : U10008A Amd1

Client: : Amscreen
Amscreen House
Paragon Business Park
Chorley New Road
Horwich
Bolton
BL6 6HG

Description : Double-sided Digital Advertising Screen

Manufacturer : Not disclosed

Type/Model : DS75

Test Specification : Measurement of power consumption in accordance with the
'Unmetered Supplies Operational Information Document' –
Version 17.0 (15/03/2017)

Date Testing Started : 08/11/2017

Conclusion : Refer to body of report

Date of Issue : 10/11/2017

Date of Expiry : 09/11/2022

Tested by: M. ALI
Position: Head of Department –
Photometry



Approved: T. MALIK
Position: Operations Manager



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Amd 1: This amendment is to correct the dimensions of the test products.

INTRODUCTION

Amscreen has supplied the product identified in table 1 for measurement of power consumption in accordance with the 'Unmetered Supplies Operational Information Document' – Version 17.0 (15/03/2017).

PRODUCT DETAILS

Table 1. Test Sample Details

Product Description	Double-sided Digital Advertising Screen
Model No.	DS75
Number of Samples	Five
Condition on Receipt	Good
Nominal Dimensions	2005mm x 1336mm x 305mm
Product Supply Requirement	240V AC, 50Hz
Lamp Type and Power	LED, 708W per screen at 100%
Sampling Method: Test samples selected and supplied by client, no sampling method specified by client.	

The customer has declared that the equipment load does not vary with ambient temperature.

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RESULTS

Table 2. Wattage and VA results for Double-sided Advertising Screen

Operating Mode	100%				
Watts					
Voltage	Sample Number				
	1	2	3	4	5
210	1534.80	1525.30	1520.90	1514.10	1537.60
220	1530.80	1521.50	1519.60	1513.00	1536.30
230	1526.70	1520.70	1515.80	1510.50	1532.50
240	1523.40	1516.30	1513.70	1508.30	1531.20
250	1520.90	1515.30	1513.30	1506.90	1529.00
VA					
Voltage	Sample Number				
	1	2	3	4	5
210	1554.10	1544.10	1539.40	1533.40	1556.80
220	1555.30	1544.70	1542.50	1537.30	1560.00
230	1556.50	1548.50	1543.70	1539.00	1560.40
240	1558.50	1550.10	1546.40	1542.70	1564.40
250	1562.90	1555.30	1552.20	1546.50	1569.00
Power Factor					
Voltage	Sample Number				
	1	2	3	4	5
210	0.99	0.99	0.99	0.99	0.99
220	0.98	0.98	0.99	0.98	0.98
230	0.98	0.98	0.98	0.98	0.98
240	0.98	0.98	0.98	0.98	0.98
250	0.97	0.97	0.97	0.97	0.97
Ambient Temperature During Test (°C)			8.6		
PF Leading/Lagging			Leading		

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Table 3. Wattage and VA results for Double-sided Advertising Screen

Operating Mode	75%				
Watts					
Voltage	Sample Number				
	1	2	3	4	5
210	1250.40	1244.20	1247.70	1245.10	1263.40
220	1249.60	1241.30	1244.20	1242.60	1261.50
230	1247.70	1239.80	1242.40	1241.60	1259.30
240	1246.40	1237.80	1239.40	1240.30	1255.70
250	1243.70	1236.70	1236.90	1237.90	1254.40
VA					
Voltage	Sample Number				
	1	2	3	4	5
210	1274.10	1267.50	1270.30	1268.90	1286.90
220	1279.60	1269.50	1272.10	1271.00	1290.20
230	1284.10	1273.90	1276.30	1275.70	1293.10
240	1289.00	1278.80	1279.10	1281.30	1296.00
250	1294.00	1285.10	1283.80	1285.40	1302.10
Power Factor					
Voltage	Sample Number				
	1	2	3	4	5
210	0.98	0.98	0.98	0.98	0.98
220	0.98	0.98	0.98	0.98	0.98
230	0.97	0.97	0.97	0.97	0.97
240	0.97	0.97	0.97	0.97	0.97
250	0.96	0.96	0.96	0.96	0.96
Ambient Temperature During Test (°C)			9.4		
PF Leading/Lagging			Leading		

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Table 4. Wattage and VA results for Double-sided Advertising Screen

Operating Mode	50%				
Watts					
Voltage	Sample Number				
	1	2	3	4	5
210	913.28	909.32	907.47	910.34	913.40
220	911.39	907.29	906.91	908.22	911.66
230	910.01	905.94	905.92	906.19	910.14
240	908.00	904.87	904.29	905.52	908.96
250	906.47	903.17	901.89	903.30	907.68
VA					
Voltage	Sample Number				
	1	2	3	4	5
210	944.24	939.70	941.46	944.57	945.72
220	950.36	945.36	948.22	949.39	950.78
230	957.57	951.68	954.11	954.61	955.71
240	963.47	959.08	961.64	962.80	962.23
250	971.35	965.97	968.38	968.56	969.13
Power Factor					
Voltage	Sample Number				
	1	2	3	4	5
210	0.97	0.97	0.96	0.96	0.97
220	0.96	0.96	0.96	0.96	0.96
230	0.95	0.95	0.95	0.95	0.95
240	0.94	0.94	0.94	0.94	0.94
250	0.93	0.93	0.93	0.93	0.94
Ambient Temperature During Test (°C)			9.6		
PF Leading/Lagging			Leading		

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Table 5. Wattage and VA results for Double-sided Advertising Screen

Operating Mode	25%				
Watts					
Voltage	Sample Number				
	1	2	3	4	5
210	595.27	596.14	590.32	591.91	592.45
220	594.70	592.69	589.35	591.06	592.13
230	594.36	592.32	589.16	590.42	591.57
240	592.98	593.31	588.31	590.96	591.09
250	591.84	591.93	587.68	589.85	590.82
VA					
Voltage	Sample Number				
	1	2	3	4	5
210	640.69	641.09	638.17	639.67	632.26
220	645.76	642.39	644.06	644.13	639.49
230	654.77	650.31	651.88	651.46	645.35
240	662.75	660.62	660.62	663.31	655.15
250	671.99	669.80	669.73	671.41	665.05
Power Factor					
Voltage	Sample Number				
	1	2	3	4	5
210	0.93	0.93	0.93	0.93	0.94
220	0.92	0.92	0.92	0.92	0.93
230	0.91	0.91	0.90	0.91	0.92
240	0.89	0.90	0.89	0.89	0.90
250	0.88	0.88	0.88	0.88	0.89
Ambient Temperature During Test (°C)			9.6		
PF Leading/Lagging			Leading		

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Table 6. Wattage and VA results for Double-sided Advertising Screen

Operating Mode	1%				
Watts					
Voltage	Sample Number				
	1	2	3	4	5
210	304.56	306.76	300.19	299.96	300.26
220	304.25	306.65	300.50	300.05	300.53
230	304.24	306.26	299.36	299.62	300.57
240	304.34	307.23	300.13	299.56	299.80
250	303.90	306.13	300.03	300.00	300.49
VA					
Voltage	Sample Number				
	1	2	3	4	5
210	369.85	371.18	369.39	368.25	359.30
220	382.66	382.64	382.52	380.15	373.91
230	397.13	395.96	394.33	392.85	385.84
240	410.91	411.60	409.98	409.62	401.05
250	426.73	426.50	425.58	424.80	417.36
Power Factor					
Voltage	Sample Number				
	1	2	3	4	5
210	0.82	0.83	0.81	0.81	0.84
220	0.80	0.80	0.79	0.79	0.80
230	0.77	0.77	0.76	0.76	0.78
240	0.74	0.75	0.73	0.73	0.75
250	0.71	0.72	0.70	0.71	0.72
Ambient Temperature During Test (°C)			8.9		
PF Leading/Lagging			Leading		

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Table 7. Wattage and VA results for Double-sided Advertising Screen

Operating Mode	Standby				
Watts					
Voltage	Sample Number				
	1	2	3	4	5
210	130.86	132.60	123.94	125.11	126.04
220	130.26	132.02	124.87	124.53	125.18
230	131.04	132.04	125.40	125.45	123.73
240	130.52	130.82	125.34	124.99	124.34
250	130.02	129.99	124.27	123.54	123.72
VA					
Voltage	Sample Number				
	1	2	3	4	5
210	230.17	232.74	234.67	231.82	231.28
220	246.31	249.41	248.50	243.54	245.31
230	264.59	265.11	265.65	261.69	256.68
240	280.35	279.46	284.33	276.84	274.41
250	294.20	296.51	299.09	295.37	291.11
Power Factor					
Voltage	Sample Number				
	1	2	3	4	5
210	0.57	0.57	0.53	0.54	0.54
220	0.53	0.53	0.50	0.51	0.51
230	0.50	0.50	0.47	0.48	0.48
240	0.47	0.47	0.44	0.45	0.45
250	0.44	0.44	0.42	0.42	0.42
Ambient Temperature During Test (°C)			10.3		
PF Leading/Lagging			Leading		

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DEVIATION(S) FROM TEST STANDARD

No reported deviations from test standard.

MEASUREMENT UNCERTAINTY

The following expanded uncertainties apply to the measurements shown in the results;

True Power (W): $\pm 0.69\%$, Apparent Power (VA): $\pm 0.61\%$

The reported expanded uncertainty is based on a standard uncertainty multiplied by a coverage factor $k=2$, providing a coverage probability of approximately 95%. The uncertainty evaluation has been carried out in accordance with UKAS requirements.

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ILLUSTRATION



Figure 1. *Product image*

End