

T e s t R e p o r t

Report No : U10008B Amd1

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

Description : Single-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

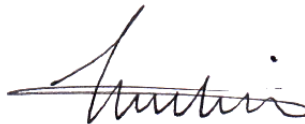
Date of Issue : 10/11/2017

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	Single-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 Single-sided Digital Advertising Screen

Operating Mode	100%				
Watts					
Voltage	Sample Number				
	1	2	3	4	5
210	786.57	784.44	781.09	778.18	791.96
220	784.15	781.80	778.82	776.82	789.95
230	783.26	781.21	777.32	775.03	787.22
240	781.82	779.09	776.23	774.00	786.28
250	781.02	778.85	775.58	773.19	785.84
VA					
Voltage	Sample Number				
	1	2	3	4	5
210	811.01	807.79	804.67	802.56	827.35
220	814.39	810.88	806.93	806.19	833.79
230	818.87	815.68	810.45	809.86	837.19
240	823.81	820.49	815.61	815.66	844.48
250	830.53	828.09	821.80	821.85	853.02
Power Factor					
Voltage	Sample Number				
	1	2	3	4	5
210	0.97	0.97	0.97	0.97	0.96
220	0.96	0.96	0.97	0.96	0.95
230	0.96	0.96	0.96	0.96	0.94
240	0.95	0.95	0.95	0.95	0.93
250	0.94	0.94	0.94	0.94	0.92
Ambient Temperature During Test (°C)			9.5		
PF Leading/Lagging			Leading		

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

Operating Mode	75%				
Watts					
Voltage	Sample Number				
	1	2	3	4	5
210	647.21	646.89	639.86	641.35	664.11
220	646.46	645.63	639.29	640.65	663.00
230	645.36	644.95	638.04	640.53	661.63
240	644.93	644.33	636.63	639.33	660.16
250	644.39	643.48	636.02	638.10	660.11
VA					
Voltage	Sample Number				
	1	2	3	4	5
210	676.74	676.19	668.22	670.63	705.64
220	683.01	680.21	672.94	675.06	712.41
230	688.24	686.08	677.75	681.01	716.98
240	694.68	693.68	683.25	687.75	723.05
250	703.24	702.02	689.90	694.94	732.65
Power Factor					
Voltage	Sample Number				
	1	2	3	4	5
210	0.96	0.96	0.96	0.96	0.94
220	0.95	0.95	0.95	0.95	0.93
230	0.94	0.94	0.94	0.94	0.92
240	0.93	0.93	0.93	0.93	0.91
250	0.92	0.92	0.92	0.92	0.90
Ambient Temperature During Test (°C)			9.4		
PF Leading/Lagging			Leading		

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

Operating Mode	50%				
Watts					
Voltage	Sample Number				
	1	2	3	4	5
210	480.61	478.72	470.22	473.74	489.09
220	480.43	477.26	470.10	472.90	488.81
230	479.38	476.47	469.33	471.38	488.49
240	477.97	475.45	469.25	471.38	488.35
250	477.92	475.61	468.85	470.77	487.65
VA					
Voltage	Sample Number				
	1	2	3	4	5
210	518.73	517.55	506.55	511.25	536.41
220	528.10	523.28	512.11	516.96	544.47
230	534.43	529.20	515.73	521.55	555.45
240	540.01	534.72	522.48	528.95	563.72
250	548.44	542.77	530.40	535.80	575.59
Power Factor					
Voltage	Sample Number				
	1	2	3	4	5
210	0.93	0.92	0.93	0.93	0.91
220	0.91	0.91	0.92	0.91	0.90
230	0.90	0.90	0.91	0.90	0.88
240	0.89	0.89	0.90	0.89	0.87
250	0.87	0.88	0.88	0.88	0.85
Ambient Temperature During Test (°C)			9.4		
PF Leading/Lagging			Leading		

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

Operating Mode	25%				
Watts					
Voltage	Sample Number				
	1	2	3	4	5
210	319.36	320.65	314.42	317.34	324.82
220	319.13	320.34	314.10	316.39	324.42
230	318.57	319.37	313.79	316.53	324.10
240	318.24	319.50	312.45	316.44	324.13
250	318.02	319.26	312.67	316.36	324.20
VA					
Voltage	Sample Number				
	1	2	3	4	5
210	366.30	366.94	357.92	362.36	385.57
220	376.27	374.29	365.92	368.92	396.74
230	384.94	383.02	373.68	377.95	407.35
240	394.54	394.24	382.75	389.24	422.50
250	406.79	405.46	392.86	400.40	439.31
Power Factor					
Voltage	Sample Number				
	1	2	3	4	5
210	0.87	0.87	0.88	0.88	0.84
220	0.85	0.86	0.86	0.86	0.82
230	0.83	0.83	0.84	0.84	0.80
240	0.81	0.81	0.82	0.81	0.77
250	0.78	0.79	0.80	0.79	0.74
Ambient Temperature During Test (°C)			9.5		
PF Leading/Lagging			Leading		

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

Operating Mode	1%				
Watts					
Voltage	Sample Number				
	1	2	3	4	5
210	174.17	176.47	170.64	172.86	178.67
220	173.84	176.16	170.89	172.79	178.12
230	173.71	175.86	169.71	171.92	178.13
240	173.75	175.86	170.29	171.82	178.65
250	173.75	175.59	170.12	171.82	178.92
VA					
Voltage	Sample Number				
	1	2	3	4	5
210	244.34	244.49	238.03	240.75	269.42
220	258.34	255.91	248.76	252.26	284.18
230	271.61	268.01	258.88	263.56	297.96
240	284.64	283.23	273.07	277.86	316.38
250	299.37	298.54	286.40	292.63	334.11
Power Factor					
Voltage	Sample Number				
	1	2	3	4	5
210	0.71	0.72	0.72	0.72	0.66
220	0.67	0.69	0.69	0.68	0.63
230	0.64	0.66	0.66	0.65	0.60
240	0.61	0.62	0.62	0.62	0.56
250	0.58	0.59	0.59	0.59	0.54
Ambient Temperature During Test (°C)			9.8		
PF Leading/Lagging			Leading		

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

Operating Mode	Standby				
Watts					
Voltage	Sample Number				
	1	2	3	4	5
210	85.47	85.35	80.85	82.16	88.37
220	85.44	85.38	81.13	82.11	88.32
230	85.43	85.62	80.87	81.21	88.47
240	85.32	85.54	80.99	81.76	88.73
250	85.33	86.10	81.16	81.78	88.51
VA					
Voltage	Sample Number				
	1	2	3	4	5
210	178.46	177.74	174.73	177.14	205.72
220	194.82	191.48	187.90	189.64	223.67
230	209.20	204.52	200.38	201.82	237.95
240	221.97	219.95	214.58	217.66	256.64
250	236.59	234.50	228.20	231.85	273.21
Power Factor					
Voltage	Sample Number				
	1	2	3	4	5
210	0.48	0.48	0.46	0.46	0.43
220	0.44	0.45	0.43	0.43	0.39
230	0.41	0.42	0.40	0.40	0.37
240	0.38	0.39	0.38	0.38	0.35
250	0.36	0.37	0.36	0.35	0.32
Ambient Temperature During Test (°C)			9.7		
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*

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