

## T e s t R e p o r t

**Report No** : U10003

**Client:** : Power Data Associates  
Wrest Park  
Silsoe  
Bedfordshire  
MK45 4HR

**Description** : V Hub Type 1 L2.5 Data Cabinet Build

**Manufacturer** : Not Disclosed

**Type/Model** : V Hub Type 1 L2.5

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

**Date Testing Started** : 12/07/2017

**Conclusion** : Refer to body of report

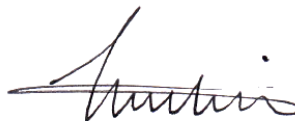
**Date of Issue** : 19/07/2017

**Date of Expiry** : 18/07/2022

**Tested by:** M.ALI  
**Position:** Head of Department -  
Photometry



**Approved:** T.MALIK  
**Position:** Operations Manager



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## **INTRODUCTION**

Power Data Associates 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).

The cabinet backup batteries were fully charged prior to testing, any power usage recorded during measurement included the trickle charge to maintain the battery charge.

An external laser was used during testing to simulate the feed from the utility provider, any additional power consumed by the external laser was not included in the measurements.

## **PRODUCT DETAILS**

**Table 1. Test Sample Details**

Product Description	V Hub Type 1 L2.5 Data Cabinet Build
Model No.	V Hub Type 1 L2.5
Number of Samples	Five
Condition on Receipt	Good
Nominal Dimensions	L1830mm x W1649mm x H1562mm
Product Supply Requirement	240V 50Hz
Lamp Type and Power	N/A
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 V Hub Type 1 L2.5 Data Cabinet Build**

Operating Mode	100%				
Watts					
Voltage	Sample Number				
	1	2	3	4	5
210	609.54	586.71	600.64	626.04	593.17
220	610.26	584.27	600.94	624.98	592.96
230	610.45	583.54	601.10	624.34	592.52
240	610.00	581.52	597.77	623.75	591.99
250	609.71	580.23	596.60	622.97	591.71
VA					
Voltage	Sample Number				
	1	2	3	4	5
210	614.87	591.91	605.93	631.31	598.46
220	616.06	590.07	606.84	630.75	598.74
230	617.01	589.45	607.96	630.97	599.15
240	617.76	590.08	606.21	631.79	599.94
250	619.26	590.82	607.12	632.99	601.59
Power Factor					
Voltage	Sample Number				
	1	2	3	4	5
210	0.99	0.99	0.99	0.99	0.99
220	0.99	0.99	0.99	0.99	0.99
230	0.99	0.99	0.99	0.99	0.99
240	0.99	0.99	0.99	0.99	0.99
250	0.98	0.98	0.98	0.98	0.98
Ambient Temperature During Test (°C)			24.7		
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 (Data cabinet)**



**Figure 2. Product image (Inside data cabinet)**

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Figure 3. *Product image (Backup battery compartment)*



Figure 4. *External laser used during testing*

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This page is to be read in conjunction with the first page of this report