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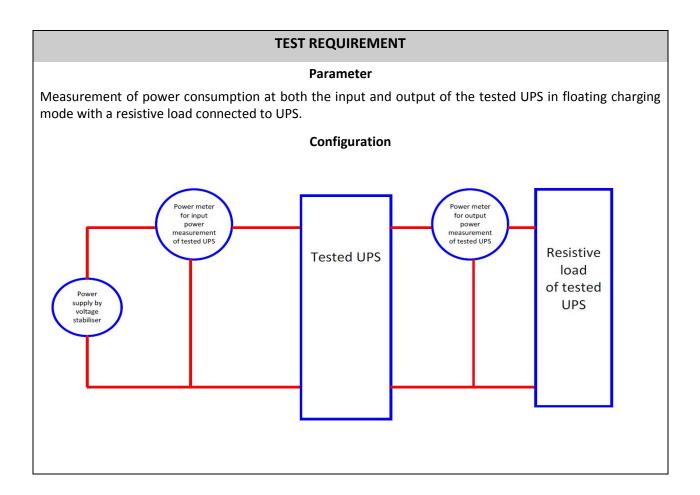
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ISO9001 Certified Quality Management System

Electrical Load Test Certificate – UPS Power Consumption Measurement

CERTIFICATE NO: 20E-12-0173-COC-267240-1 **Purchase Order: 4510316048** PREPARED FOR: PREPARED BY: Roads & Maritime Services **Sydney Laboratories** Level 2, Pod C Vipac Engineers & Scientists Ltd. 99 Phillip Street Parramatta NSW 2124 2 Sirius Road **Contact: Trevor Johnson** LANE COVE, NSW, AUSTRALIA, 2066 Phone: +61 2 8837 0273 Phone: +61 2 9422 4222 Fax: +61 2 8837 0020 Email: Trevor.JOHNSON@rms.nsw.gov.au Fax: +61 2 9420 5911 Email: sydneylabs@vipac.com.au **AUTHOR:** John Wang Electrical Safety Team Leader Date: 31 Oct 2012 **REVIEWED BY:** James Emery Electrical Safety Electrician Date: 31 Oct 2012 **ISSUED BY:** John Duffett Assistant Test Facility Manager Date: 31 Oct 2012 & QA Representative **REVISION HISTORY:** Revision No. Date Issued: Reason/Comments: 00 31 October 2012 Initial Issue 01 31 October 2012 **Editorial revision DISTRIBUTION:** Copy No.___ Location Project 1 2 **Uncontrolled Copy** Client (PDF Format) **KEYWORDS: UPS, Power, Consumption**

TEST ITEM DESCRIPTION				
Name	Alpha UPS for Traffic Signal Lanterns			
Model	FXM2000			
Serial Number	F31404			





TEST EQUIPMENT						
Equipment	Vipac asset code	Brand and model	Serial number	Calibration due date		
Digital power meter for input measurement	15773	Yokogawa WT210	91M329675	25 September 2013		
Digital power meter for output measurement	19976	LEM Analyst 2050	15812	05 September 2013		
Voltage stabiliser	30188	Power Electronics EMA-50	87241-1	-		



RESULTS						
	Voltage (V)	Current (A)	Actual power (W)	Apparent power (VA)	Power factor	
UPS Input	240.4	4.69	1001.9	1131.8	0.887	
UPS Output	235.9	3.92	920	940	0.979	

Parameters indicated on UPS when the above measurement was taken			
Input voltage: 236.5V	Output voltage: 235.5V		
Output current: 3.8A	Output power: 894VA		
Battery voltage: 53.6V	Charging current: 0.0A		
Battery temperature: 18°C	Frequency: 50.0Hz		

Test environment:

Testing performed at indoor area Room temperature: 23.9°C Relative humidity: 57.5%