




ACCREDITATION
No. 1700

Accreditation for compliance
with ISO/IEC 17025
Technical Competence - Testing



Test report - Products
Prüfbericht - Produkte

Test Report No.: <i>Prüfbericht-Nr.:</i>	AU20M7QQ	Order No.: <i>Auftrags-Nr.:</i>	252103082	Page 1 of 8 <i>Seite 1 von 8</i>	
Client Reference No.: <i>Kunden-Referenz-Nr.:</i>	2071295	Order date: <i>Auftragsdatum:</i>	18-Nov-2020		
Client: <i>Auftraggeber:</i>	Aldridge Traffic Systems P/L 12-14 Leeds St, Rhodes, NSW 2138, Australia				
Test item: <i>Prüfgegenstand:</i>	LED Lantern Street Light				
Identification / Type No.: <i>Bezeichnung / Typ-Nr.:</i>	TAS.14W				
Order content.: <i>Auftrags-Inhalt:</i>	Refer to page 2				
Test specification: <i>Prüfgrundlage:</i>	Refer to page 2				
Date of sample receipt: <i>Wareneingangsdatum:</i>	18-Nov-2020				
Test sample No.: <i>Prüfmuster-Nr.:</i>	A002970343-001 to A002970343-010				
Testing period: <i>Prüfzeitraum:</i>	18-Nov-2020 to 14-Dec-2020				
Place of testing: <i>Ort der Prüfung:</i>	TUV Rheinland Australia Pty Ltd				
Testing laboratory: <i>Prüflaboratorium:</i>	TUV Rheinland Australia Pty Ltd				
Test result*: <i>Prüfergebnis*:</i>	Samples were submitted for measurement only, no compliance limits				
reviewed by / überprüft von:		authorized by / genehmigt von:			
21-Dec-2020 Sathvik Varma P. / Test Engineer		21-Dec-2020 Daniel Ngo / Reviewer			
Date <i>Datum</i>	Name / Position <i>Name / Stellung</i>	Signature <i>Unterschrift</i>	Date <i>Datum</i>	Name / Position <i>Name / Stellung</i>	Signature <i>Unterschrift</i>
Other / Sonstiges:					
- Power consumption measurement at rated voltage for AEMO (Australian Energy Market Operator) at lab condition (Ambient (20±5)°C, Relative Humidity (45–75)%).					
Condition of the test item at delivery: <i>Zustand des Prüfgegenstandes bei Anlieferung:</i>		New samples, no damage			
* Legend: P(ass) = passed a.m. test specification(s) F(ail) = failed a.m. test specification(s) N/A = not applicable N/T = not tested <i>Legende: P(ass) = entspricht o.g. Prüfgrundlage(n) F(ail) = entspricht nicht o.g. Prüfgrundlage(n) N/A = nicht anwendbar N/T = nicht getestet</i>					
This test report only relates to the a. m. test sample. Without permission of the test center this test report is not permitted to be duplicated in extracts. This test report does not entitle to carry any test mark. <i>Dieser Prüfbericht bezieht sich nur auf das o.g. Prüfmuster und darf ohne Genehmigung der Prüfstelle nicht auszugsweise vervielfältigt werden. Dieser Bericht berechtigt nicht zur Verwendung eines Prüfzeichens.</i>					

Test Report

General remarks:

1. This report shall not be reproduced, except in full.
2. Details in test data / test plan no. 252103082.
3. Reporting of results herein is in accordance with NATA recommendations taking into account U of M.
 - (a) For minimum limits - Where measurement is on the limit or above the limit it is deemed to comply. Where measurement is below the limit it is deemed not to comply.
 - (b) For maximum limits - Where measurement is on the limit or below the limit it is deemed to comply. Where measurement is above the limit it is deemed not to comply.
4. For reporting of results the estimated uncertainty for measurement taken into account at 95% confidence level.
5. This test report is based on assessment and tests applied to the specific test item(s) as submitted by the client.
6. TÜV Rheinland Australia disclaims any and all responsibility or obligation for any other item.
7. LCP test was conducted on 10 fittings as per requested schemes

Description of the test item:

Test items are branded: **Aldridge Traffic Systems Pty Ltd.**
 Model / type number: **TAS.14W**; Ratings: 230Vac, 50 Hz, 0.07A, 17W, IP65, IK06.
 Lamp control gear: INVENTRONICS; Model Number: EUC-026S045DS; Input: 100-240Vac, 50/60Hz, 0.4A max 25W; Output: 28-56Vdc, 450mA, Vo max: 59Vdc; P_{in max}: 40W; t_c: 90°C.

Options/accessories/ancillary equipment:

The equipment was tested without any optional accessory installed. Hence, this report does not cover parameters that are influenced by the installation of optional accessory that might affect safety in the meaning of this standard.

Uncertainty of equipment used:

Equipment	Equipment No.	Range used	Uncertainty	Calibration Due Date
Digital Power Meter Model: WT310	MEL-1464	Voltage: 240V - 300V	±0.10V	31-Jan-2021
		Current: 0.1A – 0.3A	±0.0002A	
		Power: 23W	±0.05W	
		Power Factor: 1	±0.001pf	

Test procedure:

The submitted test samples (consisted of the supplied lamp and control gear combination, if applicable) for the lamp circuit power consumption measurement were placed in a draught free room and at the laboratory condition (Ambient (20±5)°C, Relative Humidity (45–75)%) for 24 hours before and during the measurement. The test samples were connected to the power source and supplied with voltage and frequency as listed in "TABLE: Power Measurement". The test samples were operated until the conditions of overall temperature equilibrium were established or at least 4 hours in stabilized operation with the supplied sources. Then the total power consumption measurements have been taken by power meter.

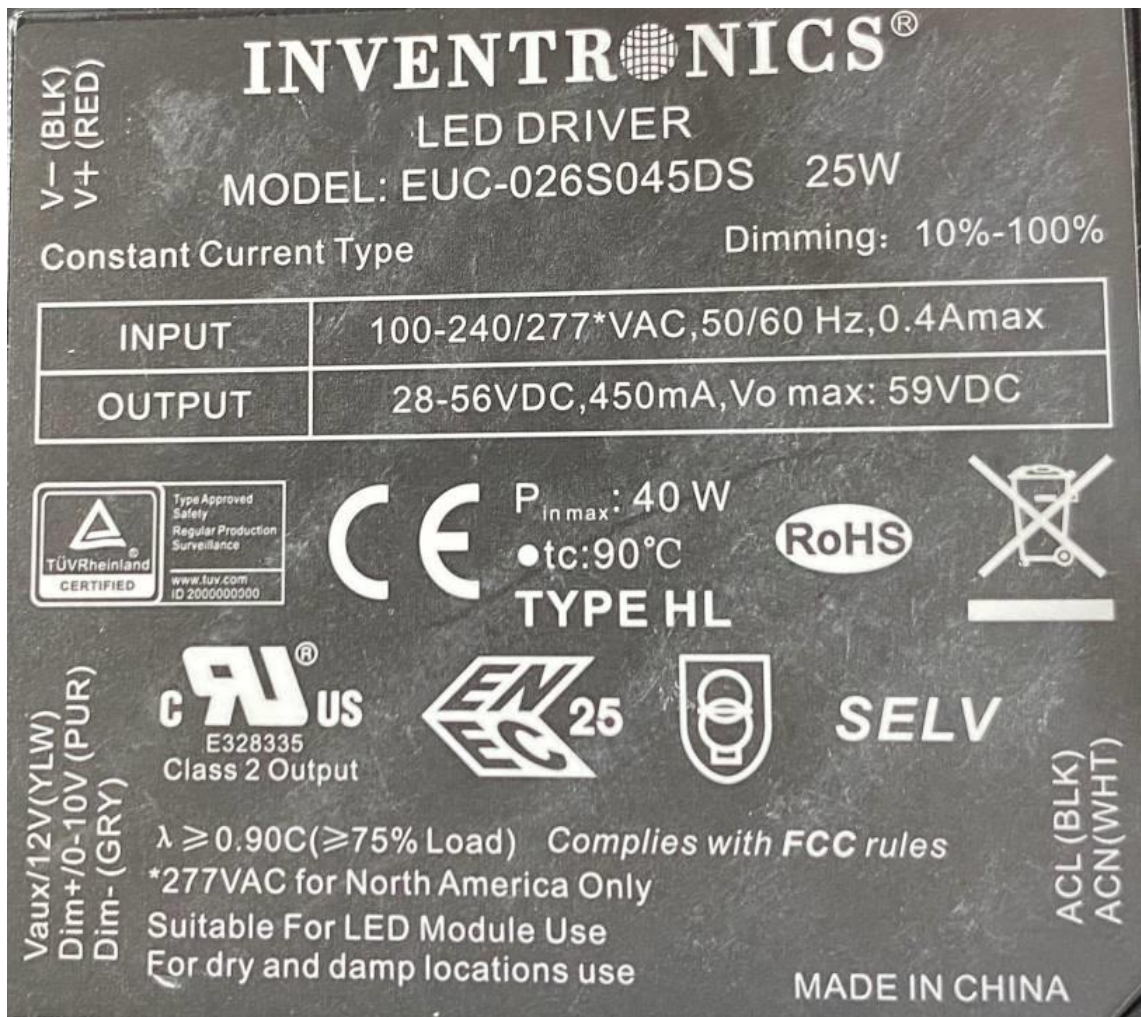
No.	Test Item	Supplied Voltage (V)	Frequency (Hz)	Measured Power (W)	Measured Current (mA)	Power Factor
1	TAS.14W	220	50	17.430	84.09	0.9422
		230	50	17.500	81.35	0.9353
		240	50	17.576	78.93	0.9278
2	TAS.14W	220	50	17.176	82.88	0.9420
		230	50	17.258	80.18	0.9358
		240	50	17.341	77.87	0.9278
3	TAS.14W	220	50	17.512	84.29	0.9443
		230	50	17.585	81.48	0.9383
		240	50	17.662	79.10	0.9304
4	TAS.14W	220	50	17.199	83.62	0.9348
		230	50	17.272	80.89	0.9284
		240	50	17.360	78.59	0.9204
5	TAS.14W	220	50	17.341	83.87	0.9398
		230	50	17.412	81.14	0.9330
		240	50	17.499	78.76	0.9257
6	TAS.14W	220	50	17.761	86.08	0.9380
		230	50	17.830	83.34	0.9302
		240	50	17.899	80.68	0.9243
7	TAS.14W	220	50	17.803	86.09	0.9399
		230	50	17.891	83.34	0.9334
		240	50	17.980	80.84	0.9267
8	TAS.14W	220	50	17.209	83.46	0.9372
		230	50	17.278	80.75	0.9303
		240	50	17.363	78.42	0.9225

9	TAS.14W	220	50	17.498	84.62	0.9399
		230	50	17.572	81.71	0.9349
		240	50	17.649	79.25	0.9279
10	TAS.14W	220	50	17.778	85.70	0.9428
		230	50	17.842	82.90	0.9358
		240	50	17.924	80.27	0.9304

Markings



Rating label

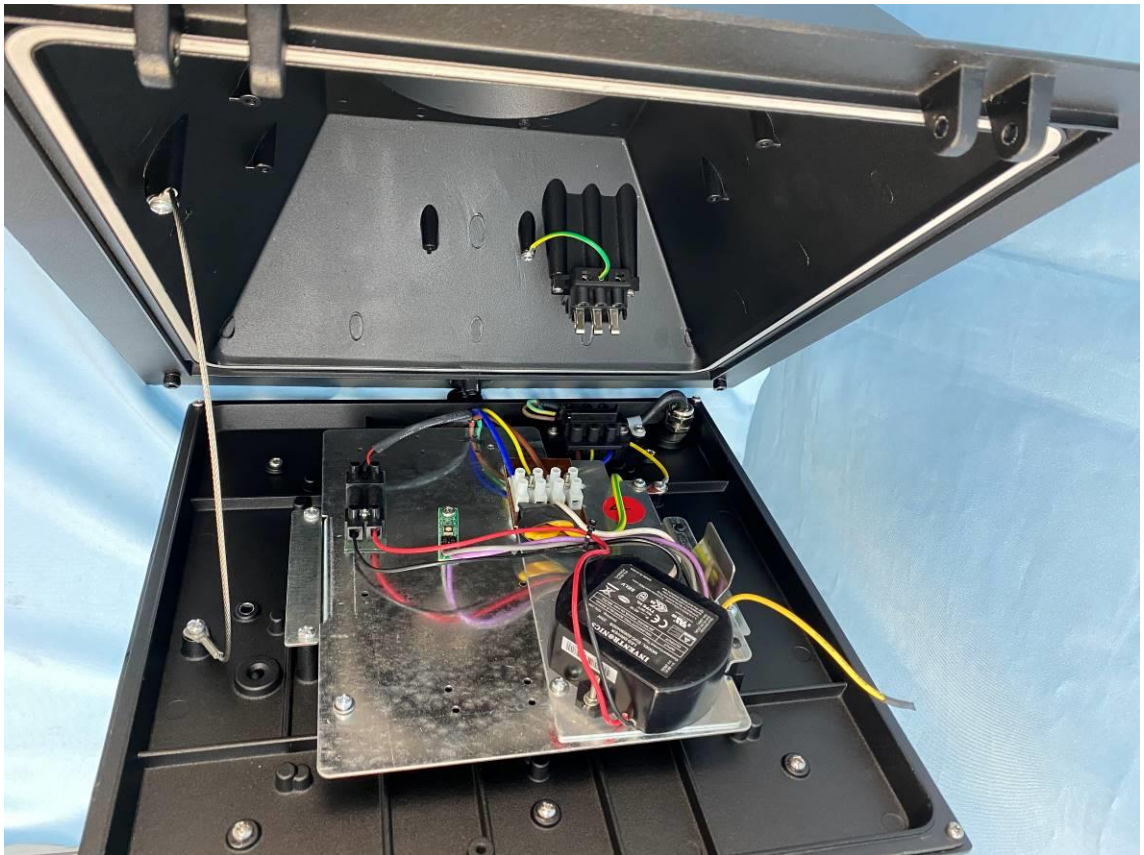


LED driver label

Photos



Product overview



Electrical Connection Compartment



Supply terminal block



LEDs overview

End of the Test Report