



**SIRIM QAS International Sdn.Bhd.**  
 (Company No.: 199601037981 (410334-X))

No.1, Persiaran Dato' Menteri, Section 2, P.O.BOX 7035,  
 40700 Shah Alam, Selangor Darul Ehsan, Malaysia  
 Tel. no: 03-55446253 / 55446251  
 Fax. no: 03-55446272  
 www.sirim-qas.com.my



SAMM 086

**TEST REPORT**

REPORT NO.: 2017EEA0564-V2	PAGE: 1 OF 44
----------------------------	---------------

This Test Report refers only to samples submitted by the applicant to SIRIM QAS International Sdn. Bhd. and tested by SIRIM QAS International Sdn. Bhd. This Test Report shall not be reproduced, except in full and shall not be used for any purpose by any means or forms (including but not limited to advertising purposes) without written approval from the Head of Quality, Occupational Safety and Health & Environment (QOSHE), SIRIM QAS International Sdn. Bhd. Please refer the last page of this Test Report for Conditions Relating to the Use of Test Report.


**THIS TEST REPORT IS ISSUED IN SECURED PDF SOFTCOPY**

Applicant : Hydro One Marketing Sdn. Bhd.  
 32, Jalan BRP 6, Taman Bukit Rawang Putra,  
 48000 Rawang Selangor.

Manufacturer : same as above

Product : ELECTRIC STORAGE WATER HEATER

Reference Standard / Method of test : MS IEC 60335-1:2015 and MS 1597-2-21:2015

Description of sample : Brand :  Solarwave  
 Model : S-80  
 Rating Voltage : 220-240 V  
 Frequency : 50 Hz  
 Power Input : 2.8 kW  
 Capacity : 400litres  
 Operating Condition : Open outlet (Low pressure type)  
 Serial No. : Nil


Date received of Complete Application : 14 OCTOBER 2019

Job No. : J20191421447

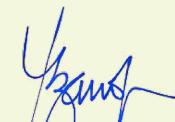
Overall test result : **COMPLIED (See page 2 for details)**

Issued date : 11 FEBRUARY 2021

Approved signatories;

  
 (AMY SURAYA ABU SAMAH)  
 Testing Executive



  
 (M.ZAMRI MUSTAFFA)  
 Head  
 Electrical and Electronics 1 Section (EEST1)  
 Testing Services Department

This Test Report refers only to samples submitted by the applicant to SIRIM QAS International Sdn. Bhd. and tested by SIRIM QAS International Sdn. Bhd. This Test Report shall not be reproduced, except in full and shall not be used for any purpose by any means or forms (including but not limited to advertising purposes) without written approval from the Head of Quality, Occupational Safety and Health & Environment (QOSHE), SIRIM QAS International Sdn. Bhd. Please refer the last page of this Test Report for Conditions Relating to the Use of Test Report.

### SUMMARY OF TESTS:

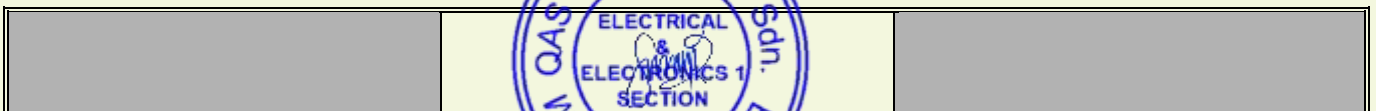
1. This is a verification test report as requested by the applicant.
2. The original test report no. 2017EEA0564 dated 18 JULY 2017, 2017EEA0564-V1 dated 14 SEPTEMBER 2017 were modified due to following changes and addition;
  - Change isolation barrier
  - Change thermostat (see table 24.1)
  - Change side enclosure
  - Add 1 new model : S-66 (this new model is similar to the main model, except tank capacity)
3. Test of clause 7.1, 10, 11, 13,15 (IP),22, 24 and 30 has been considered and conducted in this test report.
4. Model S-80 was chosen as the main and to represent other models of the selected clauses.
5. This test report shall be read in conjunction with 2017EEA564 and 2017EEA0564-V1
6. All the tests were carried out at ambient temperature of  $25 \pm 5$  °C, unless otherwise specified
7. The abbreviation used in this test report denotes as follows;
  - Pass** : Complied with the requirement
  - NA** : Not Applicable with requirement
  - Fail** : Fail to Complied with the requirement
8. Simple Acceptance Rule is used for the conformity statement. The level of risk regarding the Probability of False Accept is up to 50%. Reference document for Simple Acceptance Rule is ILAC G8:09

### SUMMARY OF RESULT/S:

1. The submitted test samples as described in this test report complied with the requirement of the reference standard.

### ADDITIONAL INFORMATION:

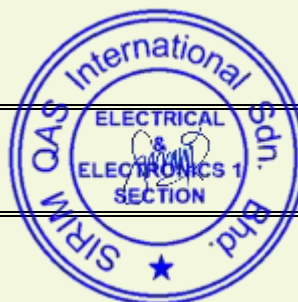
1. Tested by: Mohamad Aswandi Ariffin
2. Checked by: Amy Suraya Abu Samah
3. Date of test item(s) received:
  - a) 1<sup>st</sup> submission: 14 OCTOBER 2019
  - b) 2<sup>nd</sup> submission: 19 NOVEMBER 2019 (update sample installation)



This Test Report refers only to samples submitted by the applicant to SIRIM QAS International Sdn. Bhd. and tested by SIRIM QAS International Sdn. Bhd. This Test Report shall not be reproduced, except in full and shall not be used for any purpose by any means or forms (including but not limited to advertising purposes) without written approval from the Head of Quality, Occupational Safety and Health & Environment (QOSHE), SIRIM QAS International Sdn. Bhd. Please refer the last page of this Test Report for Conditions Relating to the Use of Test Report.

- c) 3<sup>rd</sup> submission: 14 JULY 2020 (modified unit under test)
- d) 4<sup>th</sup> submission: 2 SEPTEMBER 2020 (replaced faulty component)
- e) 5<sup>th</sup> submission: 17 NOVEMBER 2020 (received supporting document)
- f) 6<sup>th</sup> submission: 27 JANUARY 2021 (final modified on cord anchorage)
4. Date of test performed: i- 8 NOVEMBER 2019 – 15 NOVEMBER 2019.  
 ii- 15 JULY 2020 – 2 SEPTEMBER 2020  
 iii- 16 SEPTEMBER 2020 – 20 NOVEMBER 2020  
 iv- 27 JANUARY 2021
5. General product information are as follows;

No	Model	Capacity (litres)	Technical data
1	S-80	400	220-240V, 50Hz, IPX4, 2.8kW
2	S-60	300	
3	S-66	320	



--	--	--