



FCC RF EXPOSURE REPORT

For

WI-FI 600W DIMMER SINGLE POLE

MODEL NUMBER: SQR226U1WHW, SQR226U1LAW, SQR226U1BKW

FCC ID: 2AUCU-226U1W

REPORT NUMBER: 4789727738-2

ISSUE DATE: February 01, 2021

Prepared for

Schneider Electric (China) Co., Ltd., Shenzhen Branch Room 201, Building A, No. 1 Qianwanyi Road, Shengang Cooperation Zone, Qianhai, Shenzhen, China

Prepared by

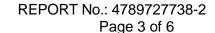
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1. ATTESTATION OF TEST RESULTS

Applicant Information

Company Name: Schneider Electric (China) Co., Ltd., Shenzhen Branch Address: Schneider Electric (China) Co., Ltd., Shenzhen Branch Room 201, Building A, No. 1 Qianwanyi Road, Shengang

Cooperation Zone, Qianhai, Shenzhen, China

Manufacturer Information

Company Name: Schneider Electric (China) Co., Ltd., Shenzhen Branch Address: Room 201, Building A, No. 1 Qianwanyi Road, Shengang

Cooperation Zone, Qianhai, Shenzhen, China

EUT Information

EUT Name: WI-FI 600W DIMMER SINGLE POLE

Model: SQR226U1WHW

Series Model: SQR226U1LAW, SQR226U1BKW

Model difference: Please refer to clause 5.1. Description of EUT

Brand: Schneider Electric / Square D

Schneider SQUARE D

Sample Received Date: December 11, 2020

Sample Status: Normal Sample ID: 3522326

Date of Tested: December 11, 2020~ December 18, 2020

APPLICABLE STANDARDS

STANDARD

PASS

FCC 47CFR§2.1091 KDB-447498 D01 V06

Prepared By:

Kebo Zhang

Project Engineer

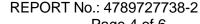
Checked By:

Shawn Wen Laboratory Leader

Approved By:

Stephen Guo

Laboratory Manager





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2. TEST METHODOLOGY

The tests documented in this report were performed in accordance with KDB 447498 D01 General RF Exposure Guidance v06.

3. FACILITIES AND ACCREDITATION

3. I ACILITIES AND ACCREDITATION						
	A2LA (Certificate No.: 4102.01)					
	UL Verification Services (Guangzhou) Co., Ltd. Song Shan Lake Branch.					
	has been assessed and proved to be in compliance with A2LA.					
	FCC (FCC Designation No.: CN1187)					
	UL Verification Services (Guangzhou) Co., Ltd. Song Shan Lake Branch.					
	Has been recognized to perform compliance testing on equipment subject					
	to the Commission's Delcaration of Conformity (DoC) and Certification					
	rules					
Accreditation	ISED(Company No.: 21320)					
Certificate	UL Verification Services (Guangzhou) Co., Ltd. Song Shan Lake Branch.					
Cortinioato	has been registered and fully described in a report filed with					
	Industry Canada. The Company Number is 21320.					
	VCCI (Registration No.: G-20019, R-20004, C-20012 and T-20011)					
	UL Verification Services (Guangzhou) Co., Ltd. Song Shan Lake Branch.					
	has been assessed and proved to be in compliance with VCCI, the					
	Membership No. is 3793.					
	Facility Name:					
	Chamber D, the VCCI registration No. is G-20019 and R-20004					
	Shielding Room B, the VCCI registration No. is C-20012 and T-20011					

Note 1: All tests measurement facilities use to collect the measurement data are located at Building 10, Innovation Technology Park, Song Shan Lake Hi tech Development Zone, Dongguan, 523808, China

Note 2: The test anechoic chamber in UL Verification Services (Guangzhou) Co., Ltd. Song Shan Lake Branch had been calibrated and compared to the open field sites and the test anechoic chamber is shown to be equivalent to or worst case from the open field site.

Note 3: For below 30MHz, lab had performed measurements at test anechoic chamber and comparing to measurements obtained on an open field site. And these measurements below 30MHz had been correlated to measurements performed on an OFS.



4. EQUIPMENT UNDER TEST

4.1. DESCRIPTION OF EUT

EUT Name	WI-FI 600W DIMMER SINGLE POLE
Model	SQR226U1WHW
Series Model	SQR226U1LAW, SQR226U1BKW
Model difference	SQR226U1WHW, SQR226U1LAW, SQR226U1BKW are identical except for color
Radio Technology	WLAN (IEEE 802.11b/g/n HT20)
Operation frequency	IEEE 802.11b: 2412MHz ~ 2462MHz IEEE 802.11g: 2412MHz ~ 2462MHz IEEE 802.11n HT20: 2412MHz ~ 2462MHz
Modulation	IEEE 802.11b: DSSS (CCK, DQPSK, DBPSK) IEEE 802.11g: OFDM (64QAM, 16QAM, QPSK, BPSK) IEEE 802.11n HT20: OFDM (64QAM, 16QAM, QPSK, BPSK)
Ratings	AC120V,60Hz



5. REQUIREMENT

LIMIT

Limits for General Population/Uncontrolled Exposure

Limits for General Population/Uncontrolled Exposure									
Frequency Range (MHz)	Electric Field Strength (E) (V/m)	Magnetic Field Strength (H) (A/m)	Power Density (S) (mW/cm²)	Averaging Time E ² , H ² or S (minutes)					
0.3-1.34	614	1.63	(100)*	30					
1.34-30	824/f	2.19/f	(180/f2)*	30					
30-300	27.5	0.073	0.2	30					
300-1500			f/150	30					
1500-100,000			1.0	30					

Note 1: f = frequency in MHz, * means Plane-wave equivalent power density

Note 2: General population/uncontrolled exposures apply in situations in which the general public may be exposed, or in which persons that are exposed as a consequence of their employment may not be fully aware of the potential for exposure or cannot exercise control over their exposure.

Note 3: The limit value 1.0mW/cm² is available for this EUT.

MPE CALCULATION METHOD

 $S = PG/(4\pi R^2)$

where: S = power density (in appropriate units, e.g. mW/ cm2)

P = power input to the antenna (in appropriate units, e.g., mW)

G = power gain of the antenna in the direction of interest relative to an isotropic radiator

R = distance to the center of radiation of the antenna (appropriate units, e.g., cm)

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CALCULATED RESULTS

Radio Frequency Radiation Exposure Evaluation

WIFI 2.4G (Worst case)									
Operating	Max. Power	Max. Antenna Gain		Power density	Limit				
Mode	(dBm)	(dBi)	(num)	(mW/ cm ²)					
2.4 G Wifi	17	2.7	1.862	0.0186	1				

Note:

1. The calculated distance is 20cm.

END OF REPORT