

仕 様 書

型番 ACA-IP21SBK/W

品名 スマートフォン用 AC アダプタ

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1.0 SCOPE

1.1 DESCRIPTION

This document details the electrical, mechanical and environmental specifications of the switching power supply.

This is a wall-mounted & foldaway-pin type switching power supply. The correlative specification is shown below.

2.0 INPUT REQUIREMENTS

2.1 INPUT VOLTAGE & FREQUENCY

The range of input voltage is from 90Vac to 264Vac

	Minimum	Nominal	Maximum
Input Voltage	90Vac	100/240Vac	264Vac
Input Frequency	47Hz	50/60Hz	63Hz

2.2 INPUT CURRENT

The maximum input current is 0.15A at 100Vac.

2.3 INRUSH CURRENT

The inrush current will not exceed 20A at 110Vac input for a cold start at 25°C.

3.0 OUTPUT REQUIRMENTS

3.1 STATIC LOAD

3.1.1	Output #	V1
3.1.2	Output Voltage	5.0-5.4V@no-load
3.1.3	Load current	1000mA
3.1.5	Line Regulation:	+/-1%
3.1.6	Load Regulation:	--
3.1.7	Loading Voltage-1	>4.2V@1000mA LOAD
3.1.8	Loading Voltage-2	
3.1.9	Short current	<2000mA or hiccup

3.2 TURN ON DELAY

During turn on and turn off, no output voltage shall exceed its nominal voltage by more than 10% and no output shall change its polarity with respect to its return line. All outputs shall reach their steady state values within 2 seconds of turn on.

3.3 HOLD UP TIME

10mS minimum from loss of 115Vac/60Hz input at maximum load,

3.4 EFFICIENCY

The efficiency (watts out / watts in) shall be higher than 60% typical while measuring at nominal line and maximum load.

3.5 OUTPUT TRANSIENT RESPONSE AND DEVIATION

No requirements.

4.0 PROTECTION PARAMETER

4.1 OVER – VOLTAGE PROTECTION

The power supply shall be hiccupped when output voltage reaches to its over – voltage protection trigger point 9V_{max}.

☐ The power supply will never recover.

☐ The power supply will go into latch-off mode, and have to OFF and ON the AC input to restart the power supply.

4.2 OVER – CURRENT PROTECTION & SHORT CIRCUIT PROTECTION

The power supply shall be withstand 1 minute of operating any output in overload condition (The over current protection should less than 350% of rated current.), or when operating any output in a short circuit condition, it is no fire and too hot to touch.

The power supply shall be self – recovering when the fault condition is removed.

5.0 ENVIRONMENTAL PARAMETER

5.1 OPERATING

The power supply shall be capable of operating continuously in any mode without performance deterioration in the following environmental conditions:

Ambient Temperature: 0°C ~ 40°C

Relative Humidity: 20% ~ 90%

Altitude: Sea level to 10,000 feet.

5.2 STORAGE

The power supply shall be capable of withstanding the following environmental conditions extended periods of time, without sustaining electrical or mechanical damage and subsequent operational deficiencies:

Ambient Temperature: -20°C ~ 85°C

Relative Humidity: 20% ~ 90%

Sea level to 10,000 feet

Vibration and Shock:

The power supply shall be designed to withstand normal transportation vibration per MIL-STD-810D, method 514 and procedures X, as it is mounted in the chassis assembly and packed for shipping

6.0 SAFETY AND INTERNATIONAL STANDARDS

6.1 REGULATORY STANDARD

The power supply shall be certified under the following international regulatory standards

	country	Regulation status	standards
PSE	JAPAN	MEET	Dentori den an

6.2 DIELECTRIC STRENGTH (HI-POT)

Input to output: AC1500V, 3.5mA, 1 minute for typical test, 1 second for production.

7.0 MECHANICAL

7.1 OUTERVIEW OF FINAL PRODUCT

The outer-view of final product is shown in outer-view drawing of page 5.

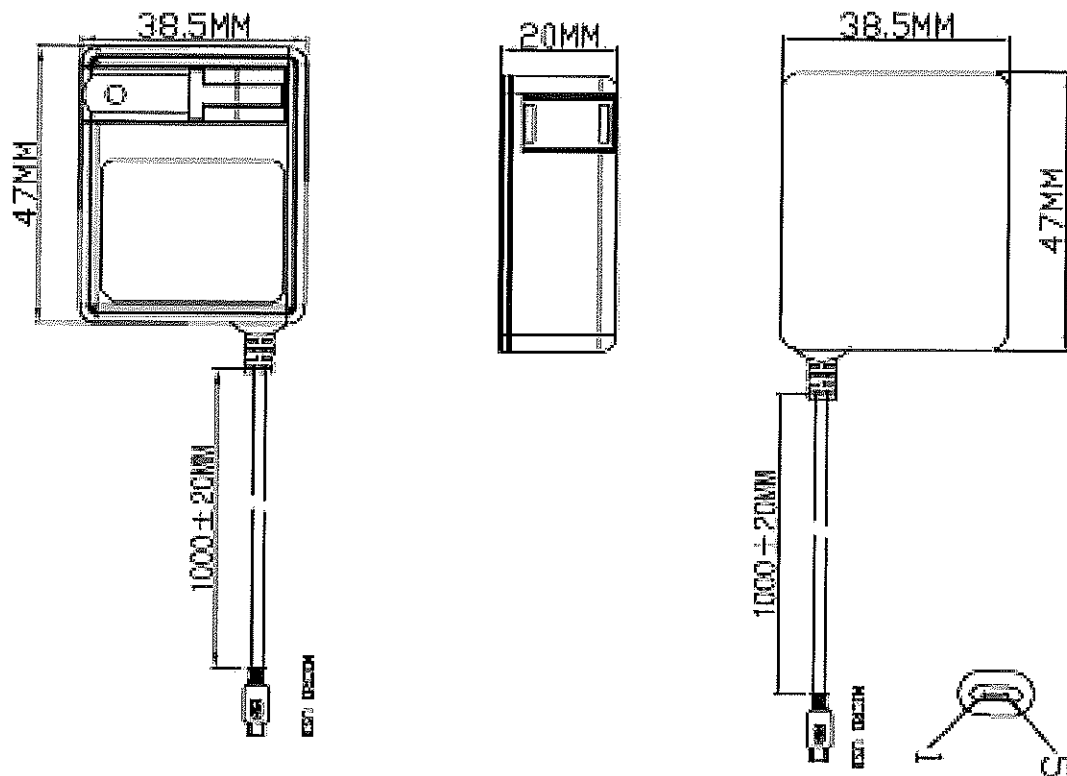
7.2 TOTAL WEIGHT

The weight of the final product is about: 35g.

7.3 PACKAGE

TBD.

SG086 带线式



1. UNIT:mm
2. COLOR: BLACK OR WHITE
3. TOLL: +/-0.5mm
4. electronic:
- 4.1 IN PUT:100-240VAC 50/60HZ 25VA
- 4.2 OUT PUT:5V/1000mA tota

線位表

P1		P2
1	紅	1
4	黑	5

TOLERANCES	COMPONENT NO. :		
M. +	SG086		
M. -	APPROVED:		
M. +	CHECKED:	SUPPLIER P/N:	
M. +	DATE:11.05.18	SHEET : 1 / 1	REV : A
M. +	DATE: 11.05.18	SCALE : /	METRIC : (mm)
M. +	DATE: 11.05.18	FILE:F	INFO ALL