

SPECIFICATION FOR APPROVAL

CUSTOMER APPROVAL

CONTENT:

SIGNATURE:

DATE:

CUSTOMER:

PART NO.:

Input:

HM065

REV: _____A0___

Please sign and return one copy.

All production units will be built according to this specification, The component specifications remain as same, its brand can be changed

Manufacturer				
Approved	Checked	Prepared	QA	Sales

Model No.: <u>K65A240250E2 B55S68</u>

Unit Color:

BLACK

Output: 24.0V_{DC} 2.5A

Product Category: AC ADAPTOR Description: ROHS

100-240V_{AC} 50/60Hz

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Rev : A0 Issue Date: 29-12-21 Sheet No. : 2 OF 10

INDEX			
10.	DESCRIPTION	PAGE	REMARK
1	Revision History	3	
2	Electrical Performance	4-5	
3	Mechanical Characteristics	5-6	
4	Environmental	6	
5	Surface Structure	6	
6	Safety & EMC	6	
7	Reliability	6	
8	Others	6-7	
9	Working Manual & Block Diagram	7	
10	Appearance Drawing	8	
11	Nameplate	9	
12	Packing Drawing	10	



1.0HISTORY REVISION

Revision Date	Revision Page	Description	Remark



2.0 Electrical performance

2.1 Input Characteristics:		
Rated input voltage	100-240Vac	
Operating range	90-264Vac	
Rated input frequency	50-60Hz	
Rated input current	1.8A Max.	
Power consumption (no loading)	0.21W Max. (Input voltage 115V and 230V)	
Primary current protection	An adequate internal fuse on the AC input line is provide.	
Configuration	<u>2</u> Conductor	

2.2 Output Characteristics:

2.2.1	Nominal dc output voltage	24.0V	
2.2.2	Minimum load current	0.0A	
2.2.3	Rating load current	2.5A	
2.2.4	Rating output power	60.0W	
2.2.5	Line regulation	The line regulation is less than ±5% while measuring at rated load and +/-10% of input voltage changing.	
2.2.6	Load regulation	The load regulation for output is less than $\pm 5\%$, at measured output load from 10% to 100% rated load .	
2.2.7	No load voltage range	22.8-25.2V	
2.2.8	Ripple and noise	≪200mVp-p	
		Full load Ripple and noise 200mVpp-pmax. Measurement is done by 20MHZ bandwidth oscilloscope and the output Paralleled a 0.1µF ceramic capacitor and a 10µF electrolysis capacitor.(test under the Condition of rated input and rated output)	
2.2.9	Average efficiency	Accord with energy level VI. Average efficiency 88.00% minimum	
		115V/60Hz and 230V/50Hz, output current from 100%, 75%, 50%, 25%.	



Rev : A0 Issue Date: 29-12-21 Sheet No. : 5 OF 10

2.2.10	Turn on delay time	3000 mS . At nominal input AC voltage and full load
2.2.11	Rise time	The Supply shall have a start-up rise time of less than 100 mS to rise to within regulation limits for all DC outputs.
2.2.12	Hold up time	5 mS minimum At nominal input AC voltage and full load
2.2.13	Output over-shoot	Less than 10% of nominal voltage value
2.2.14	Protection function	
	Over current protection	At rated AC input, output current in the range of, the power supply will protect

2.3Dielectric Withstand Voltage (HI-POT):

Engineering test: This Adapter shall be applied 3000Vac for 60s between AC input terminal to DC output terminal and enclosure. The cutoff current is specified as 10 mA; Large cargo product testing: This Adapter shall be applied 3000Vac for 2s between AC input terminal to DCoutput terminal and enclosure. The cutoff current is specified as 10 mA

2.4 Insulation Resistance:

DC <u>500</u> V <u>30</u> M Ω min between input to output and enclosure.

2.5 Overload Test:

In an ambient temperature of $\underline{25}^{\circ}$ c applies a power source of rated input with the

output load adjusted to 10% of rated output and rated continuously for $\underline{4}$ Hours,

after turning off 60 minutes in normal temperature.

2.6 Humidity Test:

Temperature $\underline{35}^{\circ}$ C, $\underline{90}$ - $\underline{95}$ % RH for $\underline{4}$ Hours after taken out from oven.

3.0 Mechanical Characteristics

3.1 Strain Relief Test:

Distance plug or 30CM SR position to impose a 10 pound weight, 1 minutes after the shift is less than 2MM.

3.2 Cord Bending Test:

The cord shall withstand a weight of 400 g, swinging from left to right at an angle of 120 degree, 40 cycle/min, 1000 times minimum. The cord shall be conductible.

3.3 Drop Test:

Product shall be dropped from a height of <u>80</u>cm, onto 1cm thickness dry wood surface 1 times from 3 different surface. (For reference only)

4.0 Environmental:

4.1 Operating Temperature and Humidity Range:

Operate over the temperature range of $\underline{0^{\circ}C}$ to $\underline{35^{\circ}C}$, $\underline{20\%}$ to $\underline{90\%}$ relative humidity no condensation.

4.2 Storage Temperature and Humidity Range



The operation specified herein will not be adversely affected if stored or transported within the temperature

limits of -20° to $+70^{\circ}$ with relative humidity up to 90% no condensation.

5.0 Surface Structure:

5.1 Appearance: Rift, dirty etc. are not permitted.

- 5.2 Outline: Dimension and express as drawing
- 5.3 Net Weight: <u>300g</u> Max.

6.0 Safety & EMC:

6.1 Safety Standard: EN62368-1:2014/A11:2017 UL62368

IEC 61558-2-16-2015 IEC 61558-1-2012

6.2 EMC Standard : EN55032:2015,EN55035:2017 FCC part 15

7.0 MTBF: <MIL-HDBK-217F>

The design and construction of this power supply shall exhibit a minimun mean time between failure of 50000 hours full rated load operation at 20--25 $^{\circ}$ C.

8.0 Others:

8.1 Instructions:

This power unit is intended to be correctly orientated in a vertical or floor mount position.

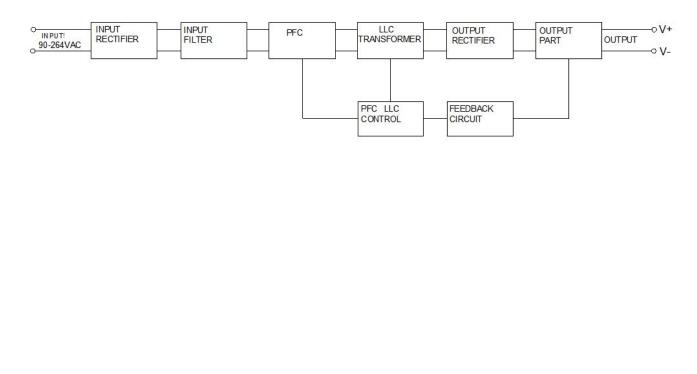
8.2 CAUTION (ATTENTION) :

8.2.1 FOR INDOOR USE ONLY

(POUR UTILISATION À L'INTÉRIEUR SEULEMENT)

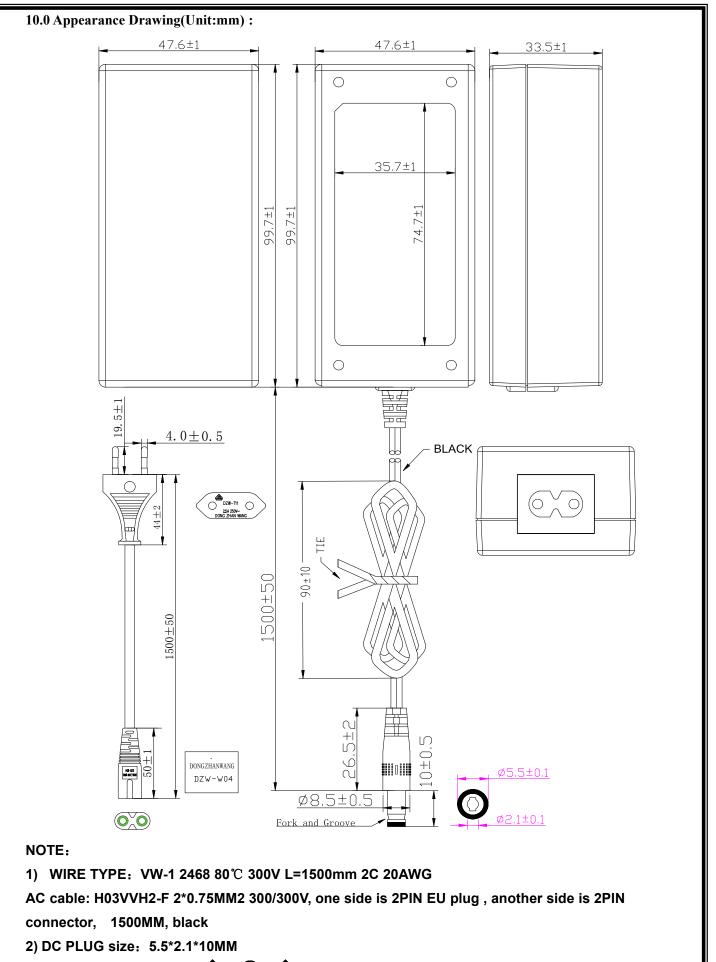
8.2.2 RISK OF FIRE OR ELECTRIC SHOCK

(RISQUES D'INCENDIE OU DE CHOC ÉLECTRIQUES) 9.0 WORKING MANUAL& BLOCK DIAGRAM:





Rev : A0 Issue Date: 29-12-21 Sheet No. : 7 OF 10



3) THE POLARITY:

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Rev : A0 Issue Date: 29-12-21 Sheet No. : 8 OF 10



2) "YYWW"expressed the production cycle:"YY" the year, "WW" the week.



Rev : A0 Issue Date: 29-12-21 Sheet No. : 9 OF 10

