



Approval Sheet

CUSTOMER NAME: _____

CUSTOMER NO.: _____

NAME : 120W 桌面式全电压

DESIGN NO. : 1.1AD-52V-0230A

MODEL NO. : 1AD-52V-0230A

STANDARD :

DATE : 2018 年 5 月 29 日

APPROVED BY CUSTOMER			SUPPLIER APPROVALED BY		
ADMIT	CHECKED	APPROVE	MADE	CHECKED	APPROVE
			杨红霞		

DongGuan DoubleX Electronics Industrial Co.,Ltd.

Add:4/F, Building D ,No. 178, Qiaojiao Middle Road, Shi Gu , Tang Xia Town, Dong Guan City, Guan g Dong province, China

Tel. : (0769) 82618608

Fax. : (0769) 81001495

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1. Electrical Performance

		Remark
1.1	Input Characteristics	Remark
1.1.1	Rated input voltage	100-240VAC
1.1.2	Operating range	100-264VAC
1.1.3	Rated input frequency	50/60Hz

1.1.4	Inrush starting current	$\leq 60A$	220VAC cold start full load
1.1.5	Maximum input current	$\leq 3A$	
1.1.6	Efficiency (Full load)	$\geq 89\%$	230VAC
1.1.7	Power factor PF	≥ 0.4	
1.1.8	Maximum no-load power	$\leq 0.15W$	230VAC
1.2	Output Characteristics		Remark
1.2.1	Rated output voltage	52VDC	
1.2.2	Output voltage range	52VDC \pm 5%	
1.2.3	Rating load current	2.3A	
1.2.4	Load current range	0-2.3A	
1.2.5	Maximum capacitive load	3000uF	cold position

1.2.6	Line regulation	The line regulation is less than $\pm 1\%$ while measuring at rated load and $\pm 10\%$ of input voltage changing	
1.2.7	Load regulation	The load regulation for output is less than $\pm 3\%$, at measured output load from 10% to 100% rated load .	
1.2.8	Ripple and noise	$\leq 100\text{mVp-p}$ Measurement is done by 20MHZ bandwidth oscilloscope and the output Paralleled a $0.1\mu\text{F}$ ceramic capacitor and a $10\mu\text{F}$ electrolysis capacitor.(test under the Condition of rated input and rated output)	
1.2.9	Turn on delay time	3000mS . At nominal input AC voltage and full load	
1.2.10	Hold up time	5mS minimum At nominal input AC voltage and full load	
1.2.11	Output over-shoot	Less than 10% of nominal voltage value	
1.3	Protection function		
1.3.1	Over current protection	2.6~3.5A	
1.3.2	Over voltage protection	60~80V Recovery after short circuit feedback loop	
1.3.3	Short-circuit protection	The charger is protected that a short happened between the output terminals and shall not result in a fire hazard, any damage to this charger and will be normal operation automatically while the short is removed	

3. Insulation And Safety Requirements

2.1	HI-Pot test	Input-Output	2000VAC. current 10mA max.(at25°C)the product to the insulation under test is gradually raised form zero to the prescribed voltage and held at that value for 2s
		Input-Ground	
2.2	Insulation Impedance		$\geq 30M \Omega / 500VDC$
2.3	Safety Standard		
	EMC Standard	EM1	
		EMC	

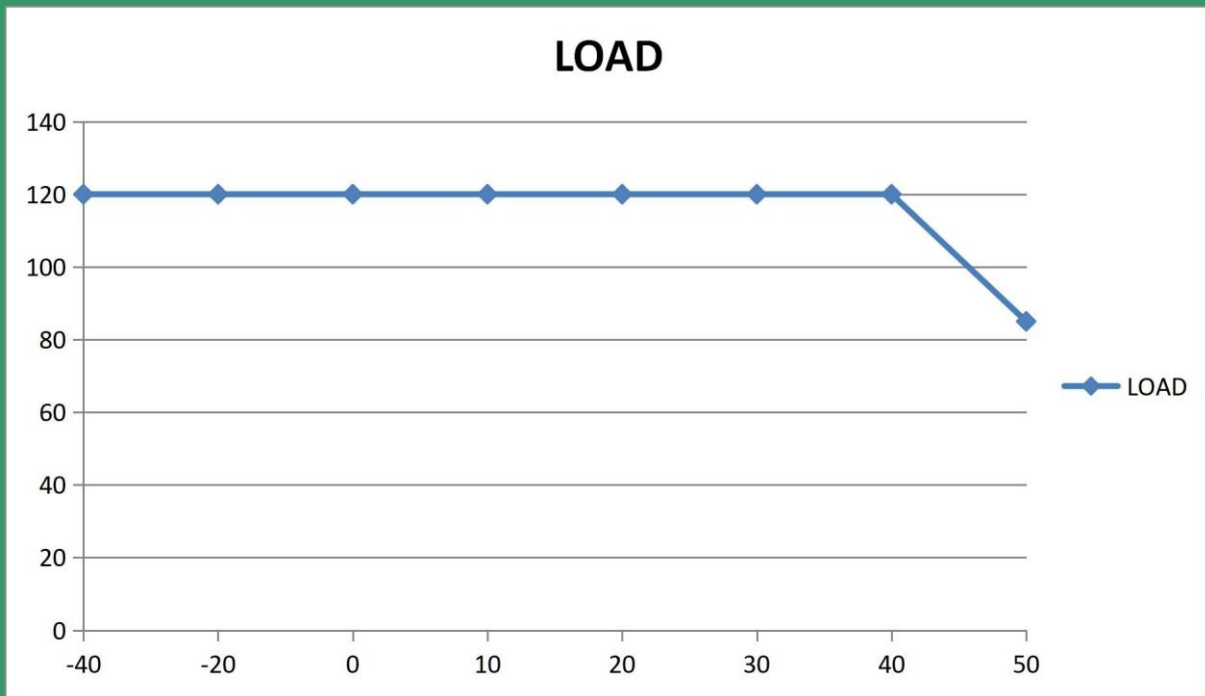
4.Environmental

3.1	Storage Temperature Range	-40~60℃	
	Storage RH Range	5~95%	
3.2	Operating Temperature Range	-40~40℃	
	Operating RH Range	20~90%	

5. Reliability And Mechanical Characteristics

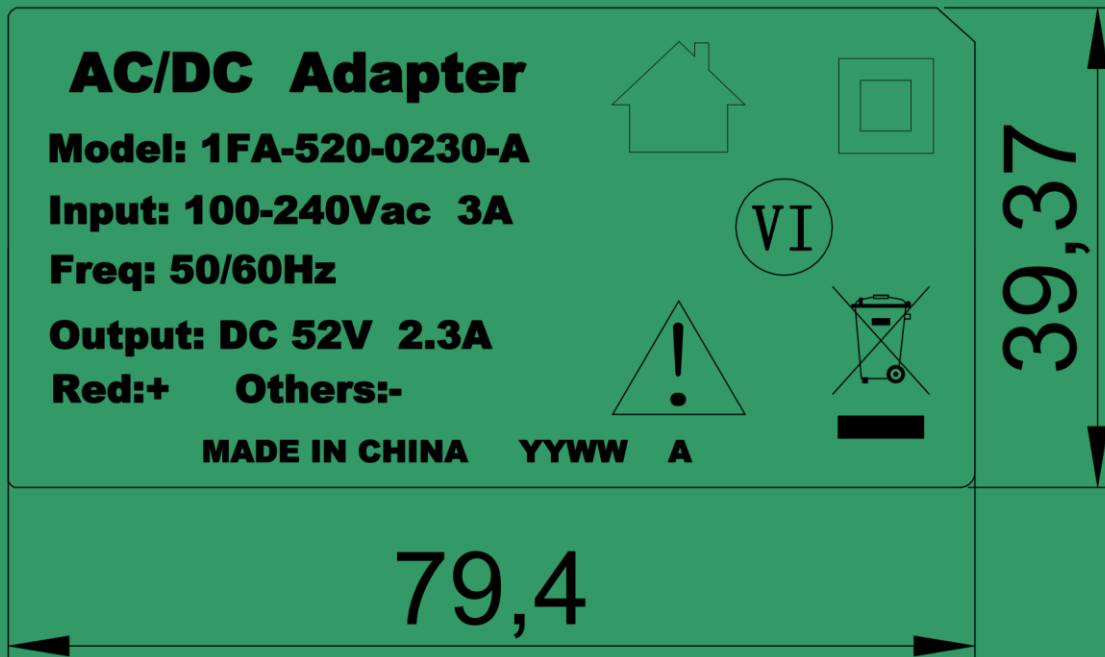
Output Power (W)	Reliability	M.T.B.F	20000H Min.
		Burn-in	48 hour(The new model for first production for 48 hour;Mass production for 2 hours
	Mechanical Characteristics	Strain Relief Test	Distance plug or 30 cm SR position to impose a 10 pound weight, 1 minutes after the shift is less than 2 mm
		Drop Test	After test, body is not broken or disassembled, or damaged to access hazardous parts,electrical performance ok
		Drop each side from 1M height to the hardwood which at least 13mm thick,total 6 times.	
	Cord Bending Test	The cord shall withstand a weight of <u>250</u> g, swinging from left to right at an angle of <u>120</u> degree, <u>40 cycle/min</u> , <u>1000</u> times minimum. Th cord shall be conductible	

6. Temperature profile



Operating Temperature (°C)

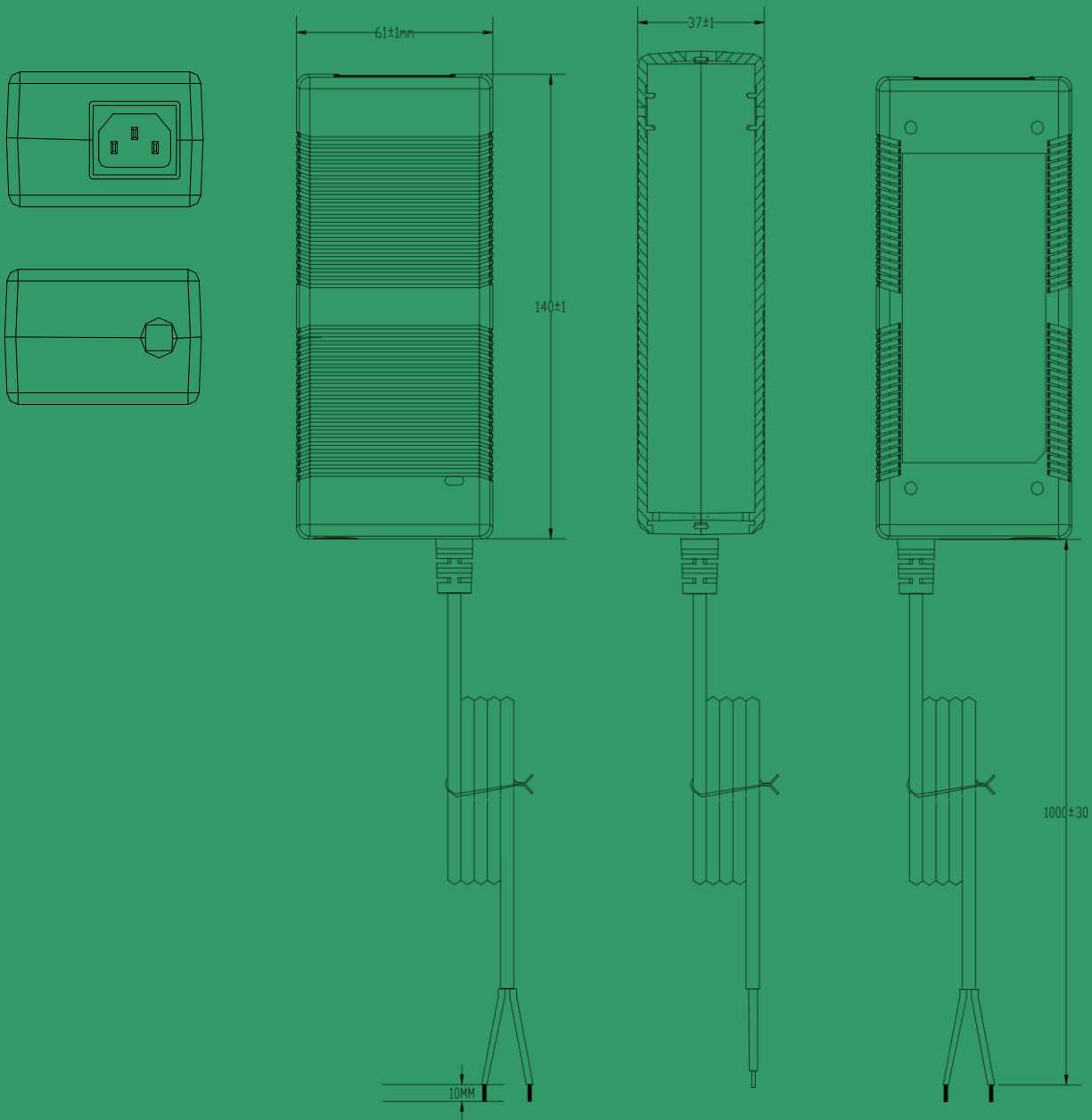
7.Nameplate(Unit:mm)



NOTE:

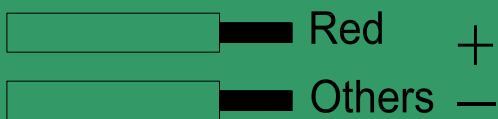
YYWW expressed the production cycle: YY the year, WW the week

8.Appearence Drawing(Unit:mm)



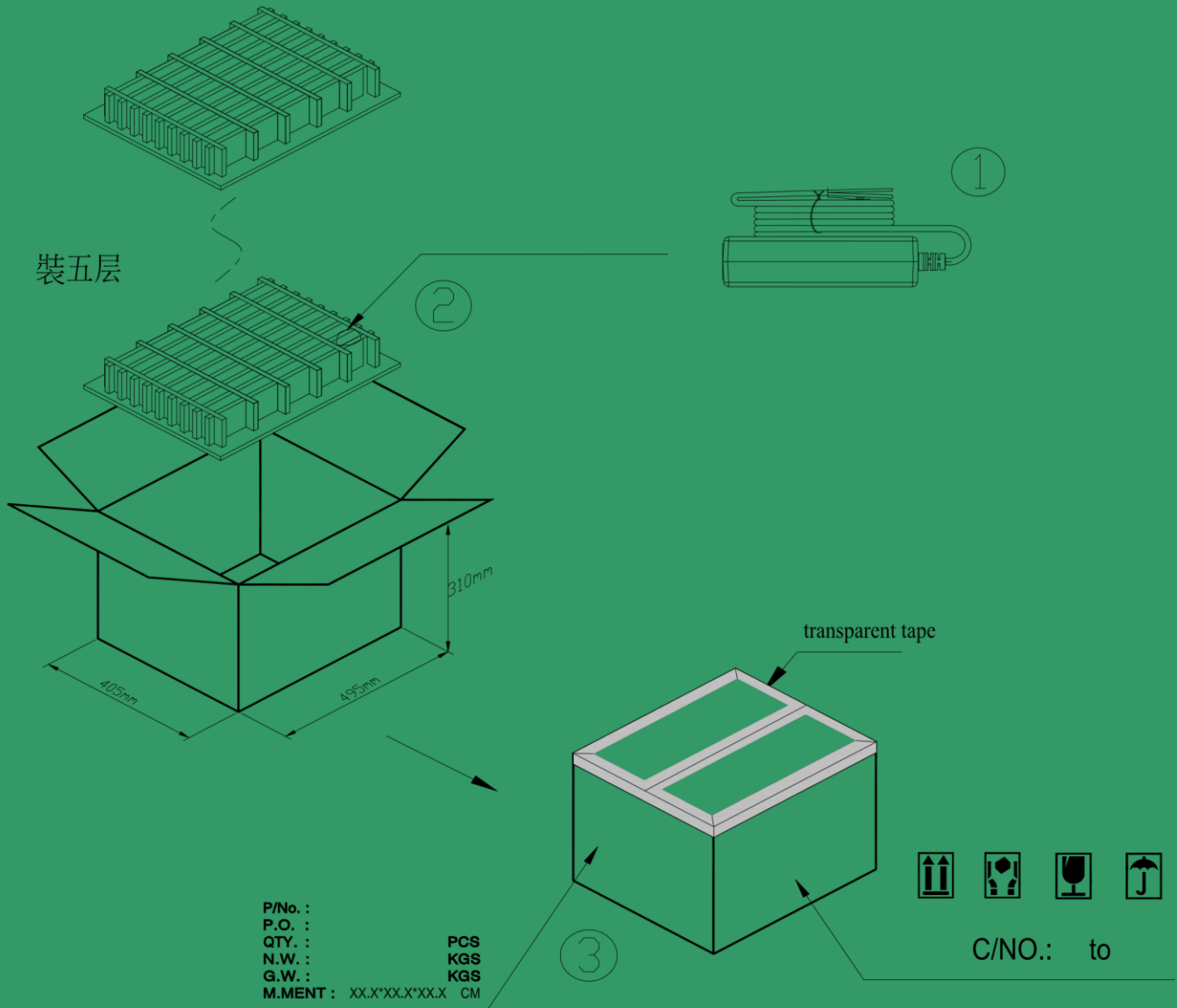
1. DC CORD: 2464 20AWG 300V 105°C L=1000mm ± 30mm;
2. DC Plug: 10mm
3. Color: Black
4. Weight: 300g

THE POLARITY:



Packing List

1	Part Name	Material	Dimension (mm)	Q'ty
3	Packing Box	A=A	495*405*310mm	1/60
4	One box in 4 level, one level in 15pcs (60pcs / Box)			



Approved by		Checked by		Prepared by	曹海兵
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