DEVETECH ELECTRONICS CO. LTD

12V/0.35A TRANSFER DEVICE
CUSTOMER: DACHS ELECTRONICA
P/N: DVP120035E111-USA

DESIGNED BY	
CHECKED BY	
APPROVED BY	

Address: 11/F.,F.Block, Hang Lok Building, 130Wing Lok St., Hong Kong.
Address: A3L1, Youpinyishu, Huanmei Rd., Dameisha, Yantian district, Shenzhen, China
Tel: (86) 13632770721 Email: sales@devetechelectronics.com Website: www.devetechelectronics.com

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Revision control record			
Date	Revision	Change description	Approved

1. Product description

This product is a AC to DC transfer device, it can provide for a 6.0 Watts single 6V output with constant voltage source and it is constructive with class II basic isolation level.

2. Electrical requirement

2.1. Input Requirement

2.1.1. Input Voltage
Normal voltage: 100 to 240Vrms
Voltage range: 90 to 264Vrms

2.1.2. Input frequency
From 47Hz to 63Hz

2.1.3. Input current
<0.3Arms at 100Vac input
<0.2Arms at 240Vac input

2.1.4. Inrush current:
a: 30A max at cold-start at 25ºC , DC output full-loading and 115Vac input.
b: 60A max at cold-start at 25ºC, DC output full-loading and 230Vac input.

2.2. Output requirement

2.2.1. Output voltage, current ripple

Output voltage	Minimum output voltage	Maximum output voltage	Output current	Output ripple (Vp-p)
12Vdc	11.40Vdc	12.60Vdc	350mA	120mV

2.2.2 Output voltage regulation
The total output voltage regulation shall met above table (as you see that), including the effects of line voltage variations, load current, ripple and noise, and the AC component of the load current. The effect of dynamic load changes is not included in this limit.

2.2.3. Ripple and noise

Tested ripple voltage is measured using oscilloscope with bandwidth limited to 20MHz, a 47uF electrolytic capacitor and a 0.1uF ceramic capacitor shall be connected to the connector in parallel.

2.2.4. Standby power

When line input voltage (110Vac or 230Vac), the standby power must be less than 0.3W.

2.2.5. Efficiency

When line input voltage (110Vac or 230Vac), the efficiency shall be 68% or better under maximum load.

2.2.6. Start up/rise time

The output voltage should rise from 0Voltage to within regulation in less than 20msec with full loading.

2.3. Protection

2.3.1. Short circuit protection (Auto recovery)

The power supply shall not be damaged by short between DC output and DC ground.

3. Environmental requirements

3.1. Temperature

Operation: 0ºC to 40ºC
Storage: -40ºC to 70ºC

3.2. Humidity

Operation: 20% - 85%
Storage: 10% - 95%

4. Reliability

4.1. Mean time between failures (MTBF)

The power supply shall be designed and produced to have a mean time between failures (MTBF) of 20,000 operation hours.

4.2. Temperature

Less than 60ºC at nominal 100-240Vac input DC out put full loading and environment temperature 25+/-1ºC on top of plastic case.

5. Burn-in

100% burn-in with 80-100% loading & 25-35ºC environment temperature.

6. Safety requirement

6.1. Hit-pot test

Apply 3000Vac between primary and secondary for 1 minute. The leakage current should be less than 10mA.

6.2. Insulation resistance test

Measure the resistance between primary and secondary with a 500V Megaohm meter. The resistance shall be greater than 100Mohm.

6.3. Leakage current test

Leakage current shall be less than 0.25mA at 254Vac/50Hz

6.4. Safety

Safety referring standards		File record
KC (KETI)	K60950	
UL	UL60950	
TUV-GS	EN60950	
CE	IEC950	

6.5. CE

Referring standards	Test specification
ESD	Contact 8KV
ESD	Air 15KV
RF	Fr:26MHz – 1.0GHz, Field strength 3V/M
EFT	2KV on AC power line
SURGE	1KV (L-N) & 2KV (L,N-PE)

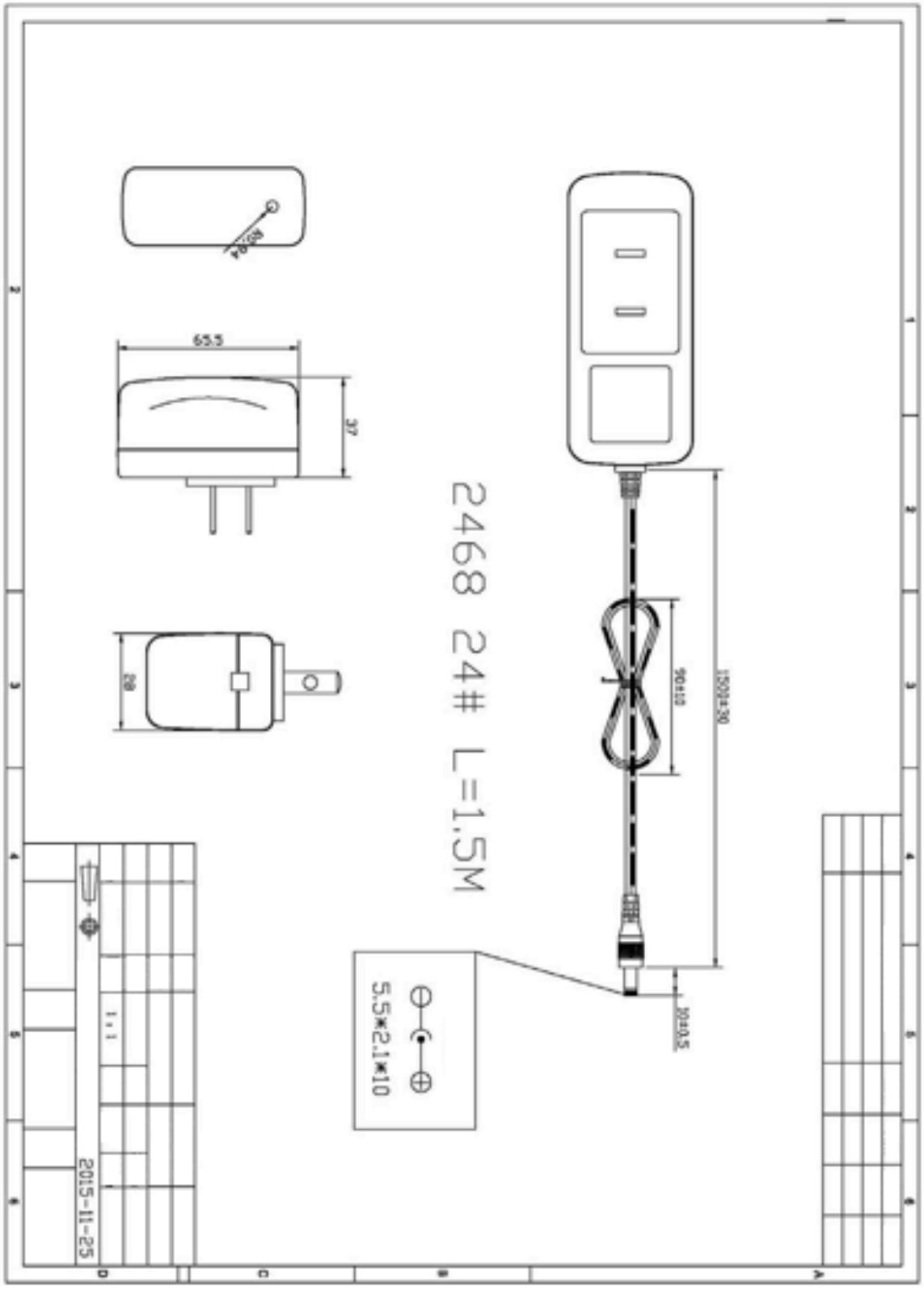
6.6. EMI for both conduction & radiation

Referring standards	**Specification**
FCC	Part 15, Class B
CISPR	Pub 22, Class B
CCC	GB9254

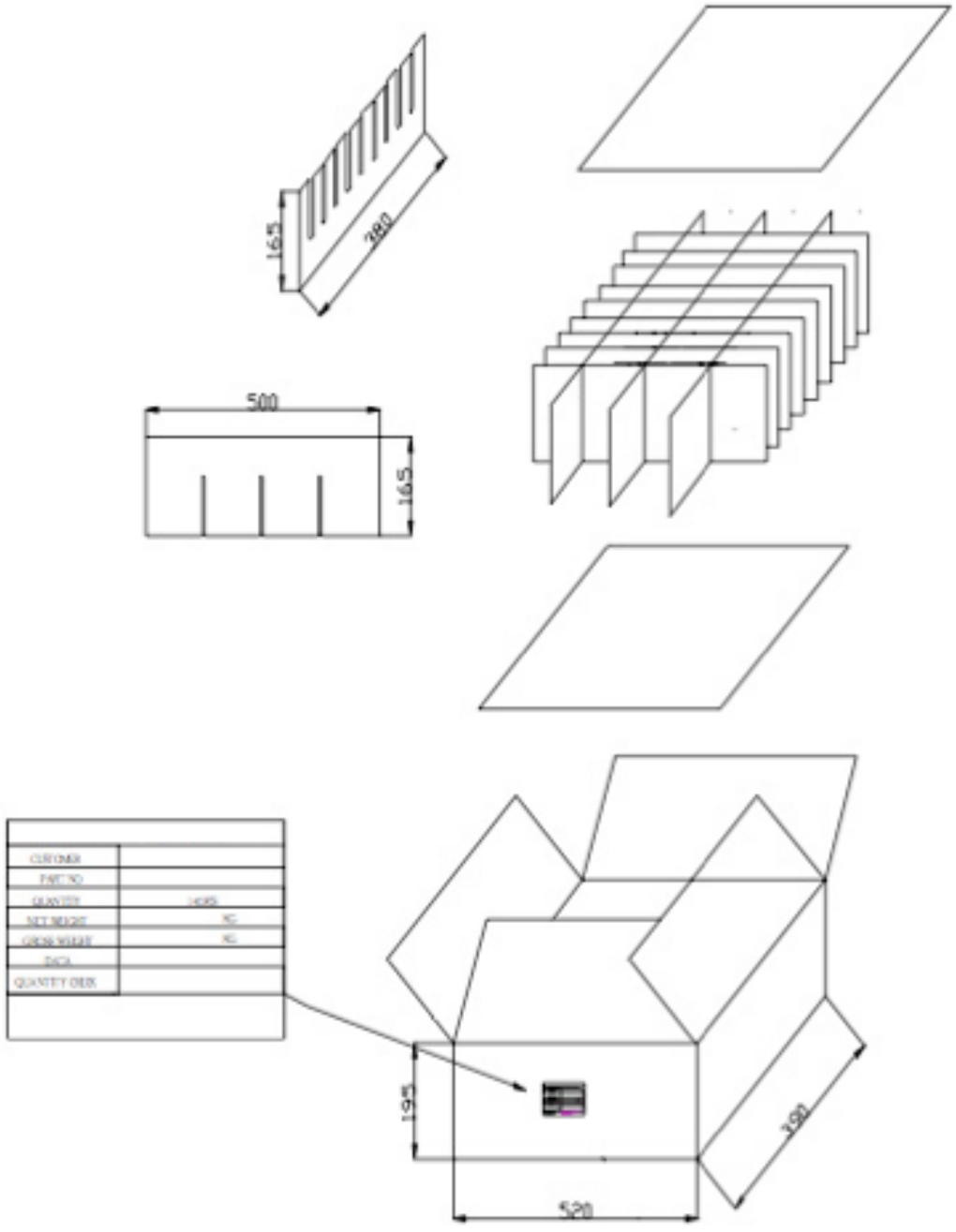
7. Mechanical

Plastic case: PC+ABS GE C2950 material, color black.
Physical size: 65.5mm (L)*37mm(W)*28(H)
DC cord: UL2468 24Awg, F5.5*2.1*10mm (centre+), 1500mm black.

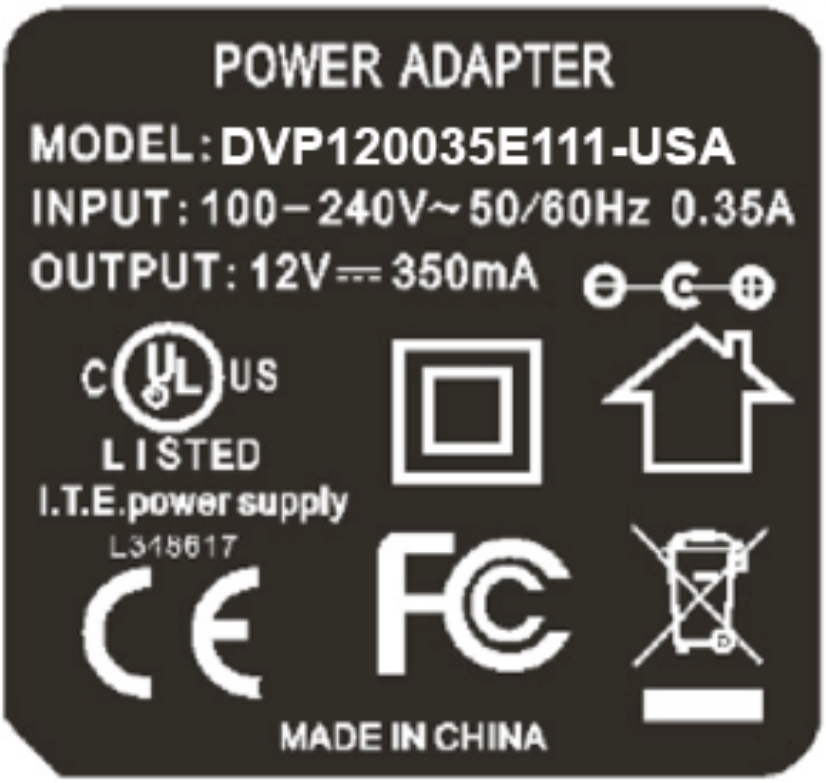
8. Outline drawing



9. Packaging



10. Label


POWER ADAPTER
MODEL: DVP120035E111-USA
INPUT: 100–240V~ 50/60Hz 0.35A
OUTPUT: 12V ⎓ 350mA
c UL us
LISTED
I.T.E.power supply
L318617
MADE IN CHINA

NOTES