

ELECTRICAL REQUIREMENTS

DESIGNED NO.

YDS-XXXX-R

DATE

ADAPTER 電氣特性要求

1. Electrical:

1-1. Input Characteristics:

1-1-1. Rated Voltage

It is normal from 100 Vac to 240 Vac input AC voltage

1-1-2. Input Voltage Range

The Adapter shall operate from 90 Vac to 264 Vac input AC voltage

1-1-3. Rated Frequency

It is normal from 50 Hz to 60 Hz and single phase.

1-1-4. Frequency Range

The Adapter shall operate with an input frequency from 47 Hz to 63 Hz .

1-1-5. Steady AC Current

Maximum steady state input current is less than 0.2 Arms. Measured at 100Vac Input voltage.

1-1-6. Inrush Current

At Full Load ,25°C , Cold Start

No Component Over Stress and No Fuse Blow No Damage To The Power Supply

1-1-7. Minimum Average Efficiency In Active

73.77% min. measured at I/P: 115 Vac/ 60 Hz or 230 Vac/ 50 Hz & Active Loading:25%/50%/75%/100%

Formula : $[0.0834 * \ln(V * I) - (0.0011 * (V * I)) + 0.609] \%$

(After full load burn in 30min Criteria : Level VI)

64.59% min. measured at I/P: 115 Vac/ 60 Hz or 230 Vac/ 50 Hz & Loading:10%

Formula : $[0.0834 * \ln(V * I) - (0.00127 * (V * I)) + 0.518] \%$

(After full load burn in 30min Criteria : Level VI)

1-1-8. No load power (Stand-by consumption)

The no load power is less than 0.075 W at 115 Vac and 230 Vac

(Criteria : Level VI)

1-2. Output Characteristics:

1-2-1. Rated Voltage

The rated output voltage is specified at 5.0 Vdc.

1-2-2. Voltage Range

The output voltage will be performed from 5.0 Vdc -5% / 5% .

1-2-3. Line Regulation

The output voltage is specified at Vout ±2 %.

1-2-4. Load Regulation

The output voltage is specified at Vout -5% / 5% .

1-2-5. Current

This Adapter can work from 0 A to 1.00 A(full load) and output voltage is in section 2 specified range.

1-2-6. Rated Power

This Adapter capable to support 5 Watts continuously at all specified conditions.

ELECTRICAL REQUIREMENTS

DESIGNED NO.

YDS-XXXX-R

DATE

1-2-7. Output Ripple and Noise

Ripple & Noise \leq 200 mVp-p (Full load at I/P: 115 Vac 60 Hz and 230 Vac 50 Hz)

Measured methods:

Performed by 20MHz bandwidth in oscilloscope. Applied 0.1uF ceramic capacitor and 10uF electrolytic capacitor across output connector terminal. Measured at the end of DC cable.

Test temperature at 25°C.

1-2-8. Turn On Delay Time

3 S maximum. Tested @ 90 Vac and 264 Vac input and 5 W full load at output.

1-2-9. Hold Up Time

10 mS Min at Max Load 115 Vac/ 60 Hz (O/P Typical Voltage Drop Down 5%)

10 mS Min at Max Load 230 Vac/ 50 Hz (O/P Typical Voltage Drop Down 5%)

1-2-10. Protection

a) Short Circuit protection

The Adapter is protected that a short happened between the output terminals and shall not result in a fire hazard, and will be normal operation automatically while the short is removed.

b) Over current protection (OCP)

2 A max.

c) Over voltage protection (OVP)

7.5 V max.

2. Environmental:

2-1. Temperature

2-1-1. Operating

The Adapter is capable to operate from 0 °C to. 40 °C

2-1-2. Non- Operating

The Adapter is capable to be stored from -10 °C to. 60 °C

NOTE: The bending angle of SR part must not be exceed 90°

2-2. Humidity

2-2-1. Operating

The Adapter is capable to operate from 10 to 90 % RH. (non condensing)

2-2-2. Non- Operating

The Adapter is capable to be stored from 5 to 95 % RH. (non condensing)

2-3. Dielectric Withstand Voltage (HI – POT)

The Adapter shall be applied 3000 Vac for 60 seconds or 4242 Vdc for 60 seconds between AC input terminals and output terminals. The cut off current is specified \leq 10 mA.

ELECTRICAL REQUIREMENTS

DESIGNED NO.

YDS-XXXX-R

DATE

2-4. Insulation Resistance

Primary to secondary : \geq 50 M ohm. 500 VDC.

2-5. EMI Requirement

The adapter complies with : V FCC Part 15 Class B
 AS/NES 3548 Class B
 GB9254 Class B

EN55022 Class B
 CNS13438 Class B
 other _____

J55022 Class B
 ICES-003 Class B

2-6. EMS

ESD : \pm 8 KV air discharge, \pm 4 KV contact discharge

PLD (lightning surge IEC 61000-4-5)

(1) Common Mode +/- _____ KV (12 ohm) . Class I (line to earth , neutral to earth , line to neutral)

(2) Differential Mode +/- 1 KV (2 ohm) . Class II (line to neutral)

2-7. Safety Conforming

Type	Standard
<input checked="" type="checkbox"/> UL	UL60950-1
<input type="checkbox"/> UL	UL1310
<input checked="" type="checkbox"/> cUL	CSA 22.2 No.60950
<input type="checkbox"/> cUL	CAN/CSA C22.2 No.223
<input type="checkbox"/> GS	EN60950-1
<input type="checkbox"/> PSE	J60950-1
<input type="checkbox"/> BSMI	CNS14336-1
<input type="checkbox"/> GS	EN60065:2002+A1:2006

Type	Standard
<input type="checkbox"/> CE	IEC60065
<input type="checkbox"/> CB	IEC60950-1
<input type="checkbox"/> SAA	AS/NZS: 60950-1
<input type="checkbox"/> CCC	GB4943
<input type="checkbox"/> CE	EN60950-1
<input type="checkbox"/> KETI	K 60950-1
<input type="checkbox"/> CB	IEC60065
<input type="checkbox"/> PSB	IEC60950-1

3. Mechanical:

3-1. Dimension

Body: 32.5 mm (L) \times 22.5 mm (W) \times 43.7 mm (H) reference only Detail Refer Page 9).

3-2. Output Cord

Plug: PIN1:+,PIN4:-,PIN2 : 3V , PIN3 : 2V

Wire: N/A

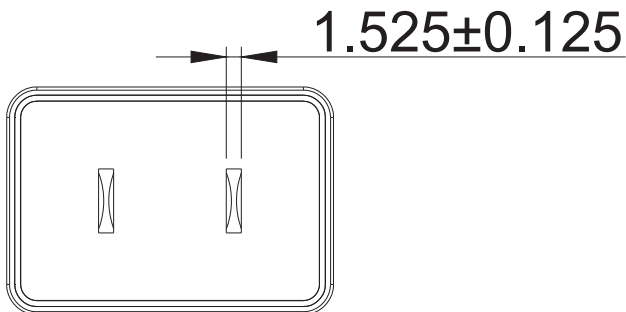
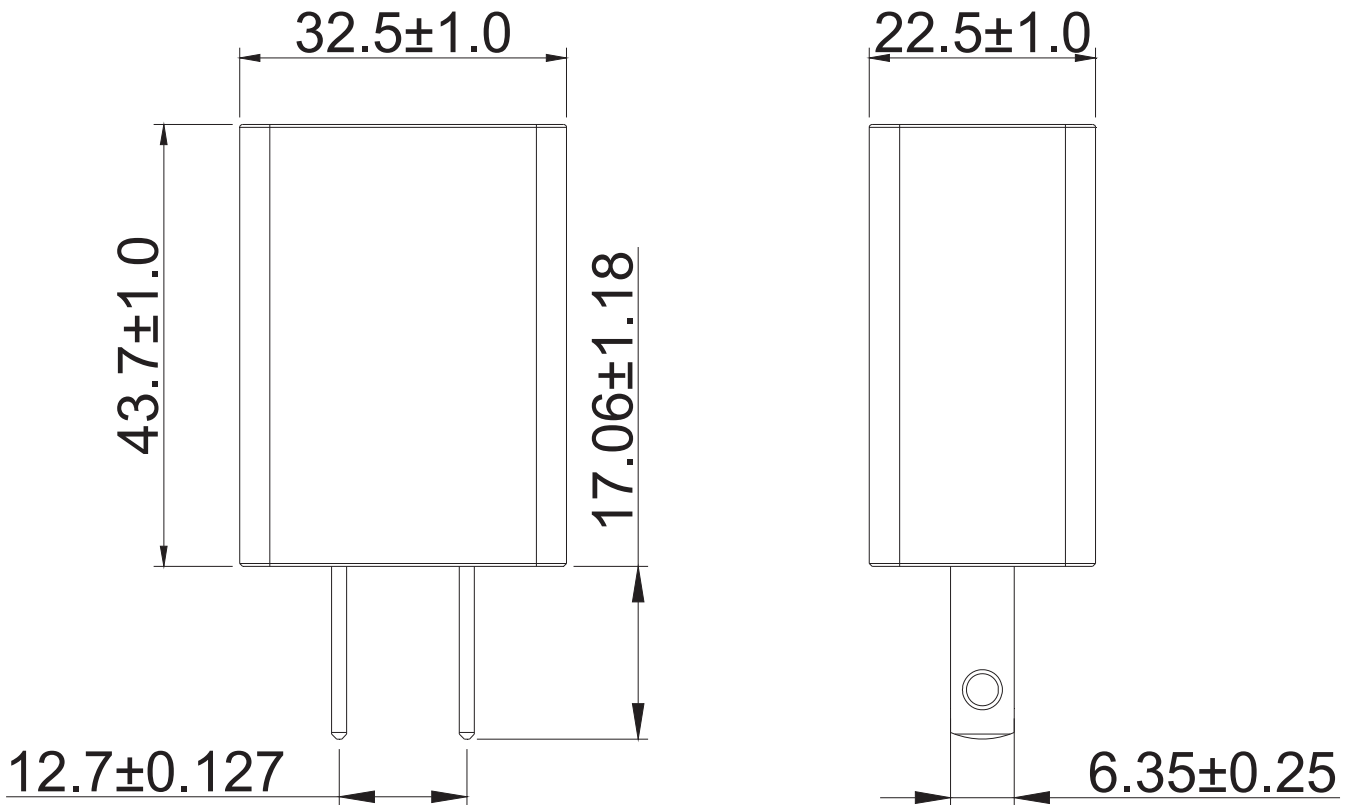
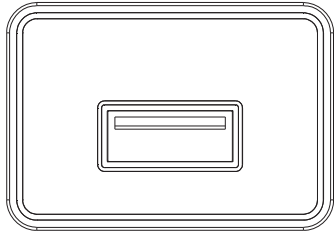
3-3. Weight

Net Weight (Approx): N/A \pm 5% mg.

3-4. AC Plug

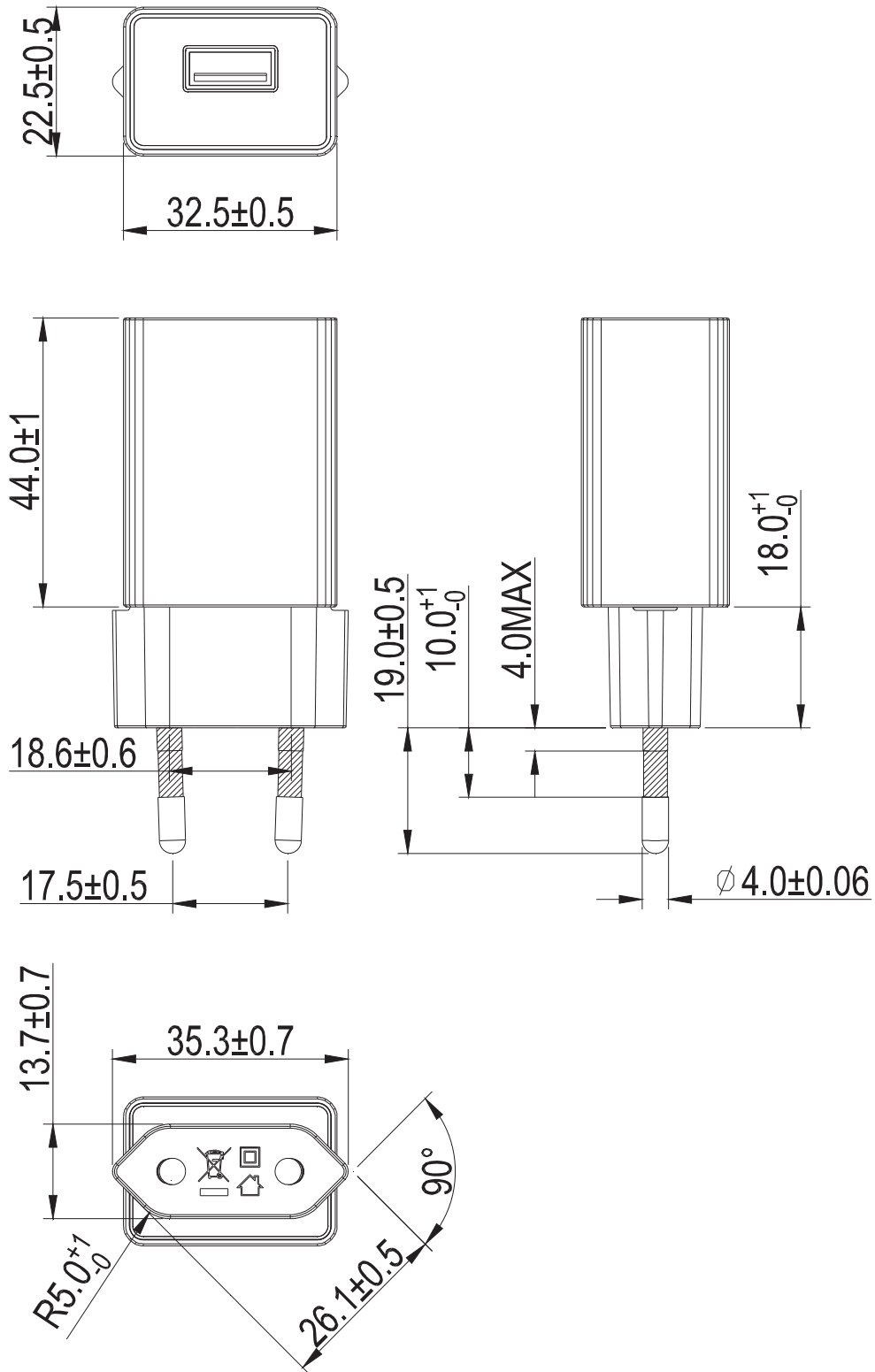
UL Type.

MECHANICAL REQUIREMENTS



DESIGNED NO.	YDS-XXXX-R			
COLOR	Black			
MATERIAL	PLASTIC	To creating new drawing SPEC.		
UNIT	mm	DESCRIPTION	DATE	REVISER

MECHANICAL REQUIREMENTS



DESIGNED NO.	YDS-8172-R			
COLOR	White			
MATERIAL	PLASTIC	To creating new drawing SPEC.		
UNIT	mm	DESCRIPTION	DATE	REVISER

NAMEPLATE

AC Adaptor

Model No: AMS57-0501000FU

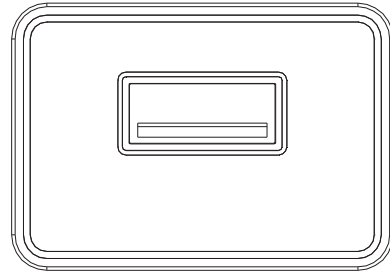
Input: 100-240V~50/60Hz 0.2A

Output: 5 V \equiv 1.0 A

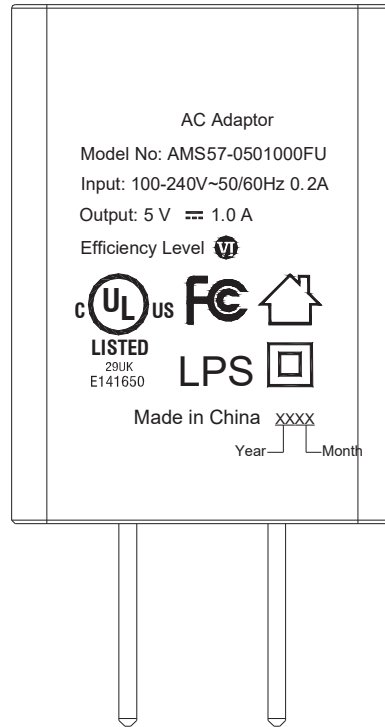
Efficiency Level VI



Year Month



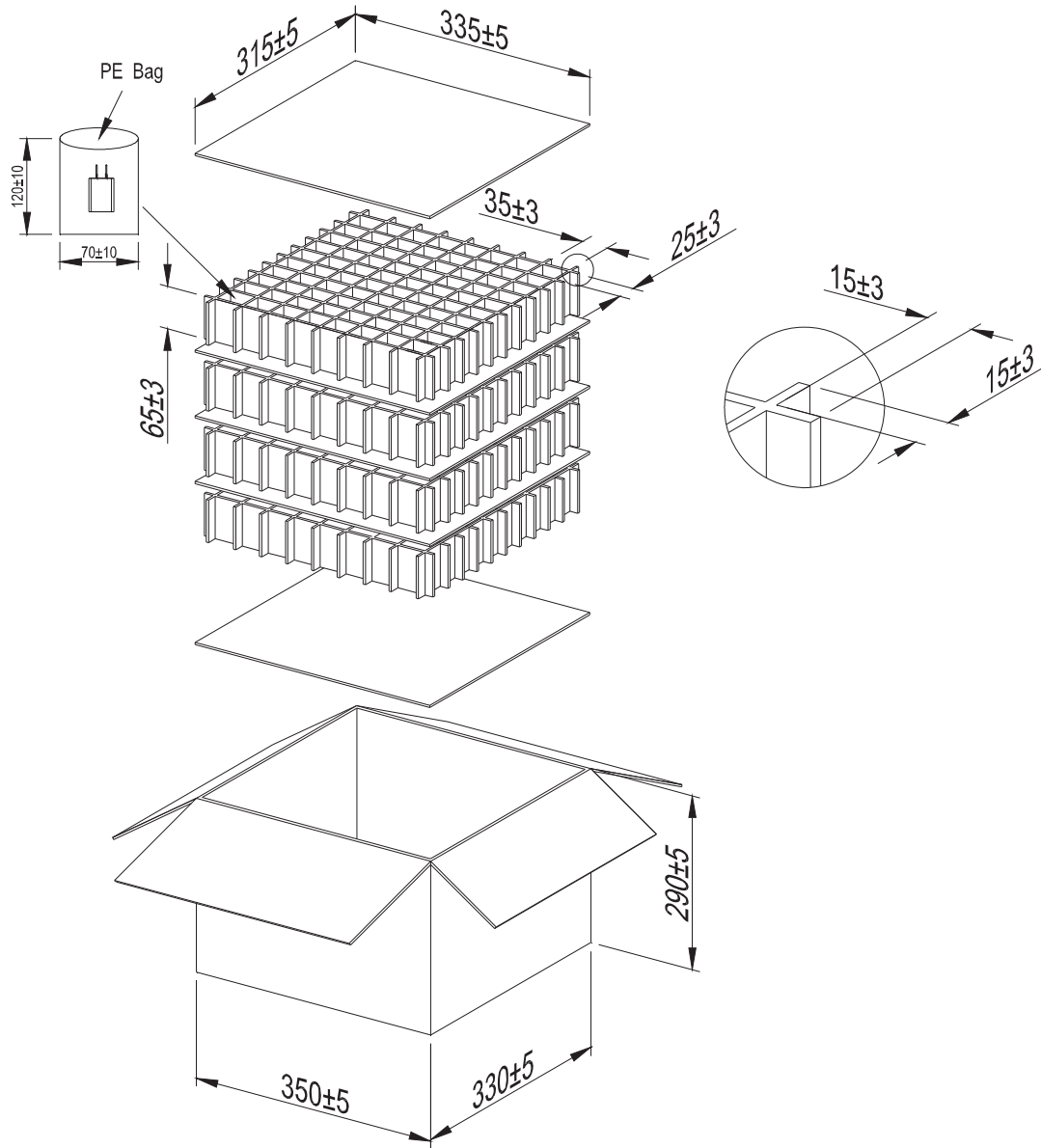
Print



Note: "R" denotes comply with RoHS

DESIGNED NO.	YDS-XXXX-R			
COLOR	_____			
MATERIAL	_____	To creating new drawing SPEC.		
UNIT	mm	DESCRIPTION	DATE	REVISER

PACKING



注：

1. 外箱尺寸：350*330*290；
2. 隔板尺寸：335*315；
3. 井字格：8*10格，有刀邊，共4層；
4. 一層裝80PCS，共4層，一箱裝320PCS；
5. PE袋：70*120。
6. 單位:mm

DESIGNED NO.	YDS-XXXX-R			
COLOR	-----			
MATERIAL	-----	To creating new drawing SPEC.		
UNIT	mm	DESCRIPTION	DATE	REVISER