

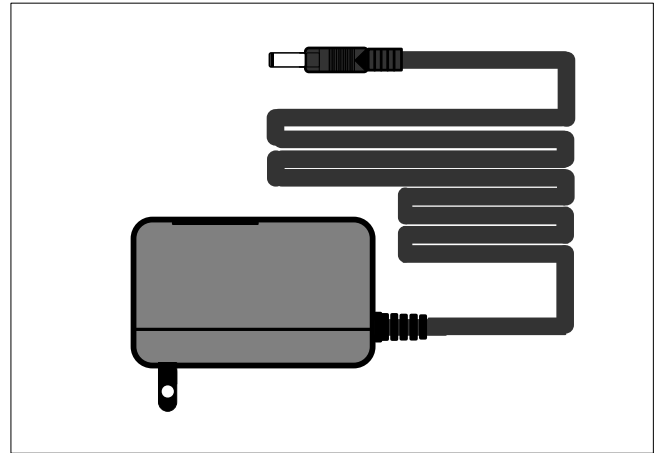
Specification : Transformer & Power Supply for Electronics Security Type.

## Model : AD12-1S *Engicon*

### Introduce

Electronic security system is very important today because a system can help you in monitoring, detecting or controlling things in the area of a running system but electronic security system must work 24 hours for such purposes we much needed in the selection of high quality equipment used in the system for performance optimization.

PPCTECH Co.,Ltd. is produced about transformer, power supply, adaptor for electronic security system we specifically designed for use 24 hours we design and support power supply to a company with a leading system integration company in Thailand we supply adaptor power supply to distributors of CCTV camera brand American, Europe and Japan.

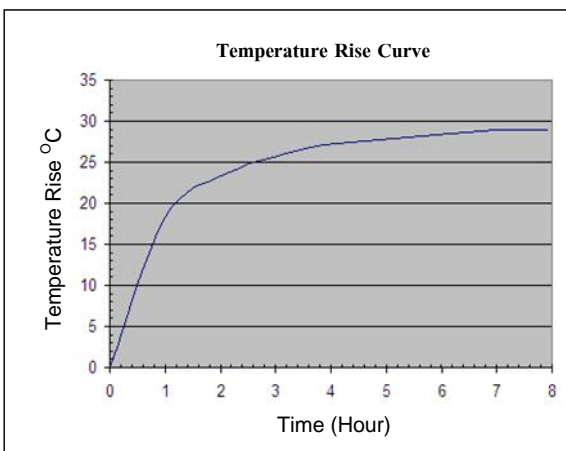


### Design Principles

Electronic security system that demands high stability, equipment used in the system must have high quality and good compatibility if some equipments do not have the quality it's effect to the system was not stable.

Many system integrators may see transformer, adaptor power supply is less important in the system but actually, these equipments are also important as well. Because if they do not have quality equipment will make no quality system although the use of other equipments high quality.

PPCTECH Co., Ltd.'s products quality and specializes for transformers and power supply to use for the actual environment we select quality electronic part to products adaptor power supply and design for low magnetic flux density transformer to reduce residual magnetism so transformer is less heat and long life more than transformer in general.



Model: AD12-1S On 25 °C Ambient

Power Supply for Electronic Security System may be used in a different by depending on the electrical properties of equipments such as cameras which use the adaptor of AC and DC, access control use power supply /with charger because they want battery backup and supply to other equipments such as reader, magnetic lock, finger scan, fire alarm system need to power supply for difference current for difference side if you need to power supply for other equipment please contact us from telephone or E- mail as below.

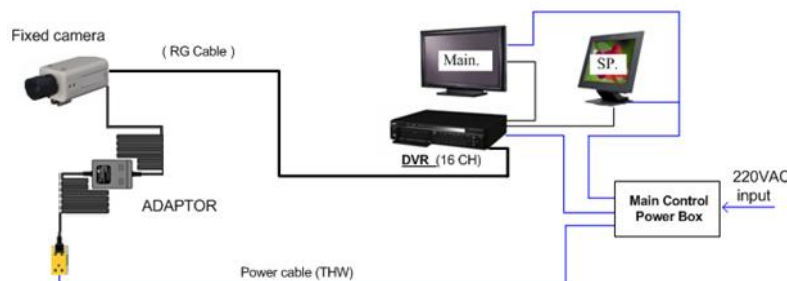
### Transformer Design Equation

$$N_p = \frac{V_{in}}{4.44 f B A}$$

$$N_s = \frac{V_{out}}{4.44 f B A}$$

- Np: Primary Turn ..... Turn.
- Ns: Secondary Turn ..... Turn.
- f: Line Frequency ..... Hz.
- Vin: AC. Input Voltage ..... Volt.
- Vout: AC. Output Voltage ..... Volt.
- B: Flux Density ..... Wb/mm.<sup>2</sup>
- A: Cross Section Areas ..... m.<sup>2</sup>

Transformer design will set B: Flux density low or set turn of transformer more than general transformer for reduce residual magnetism of transformer so transformer is less heat than transformer in general.

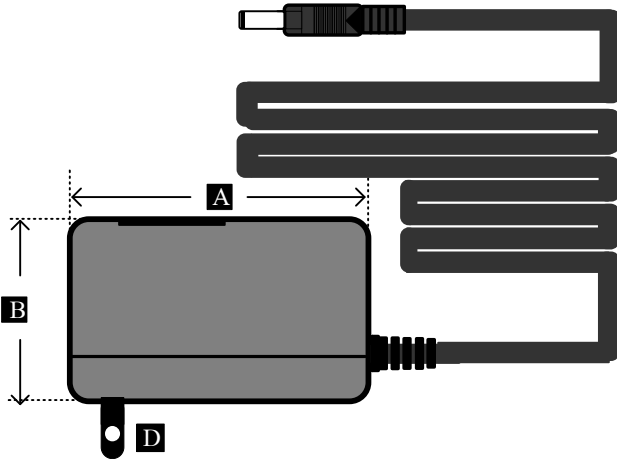


CCTV. system diagram

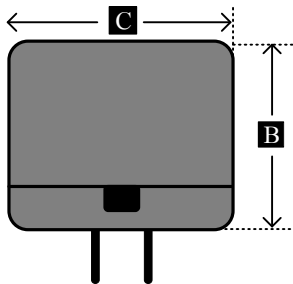
Specification : AC to DC Adapter for Electronic Security Type.

Model : AD12-1S

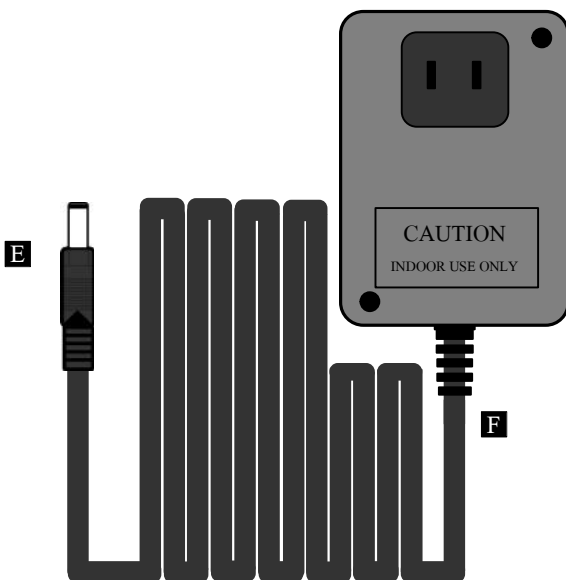
Side View



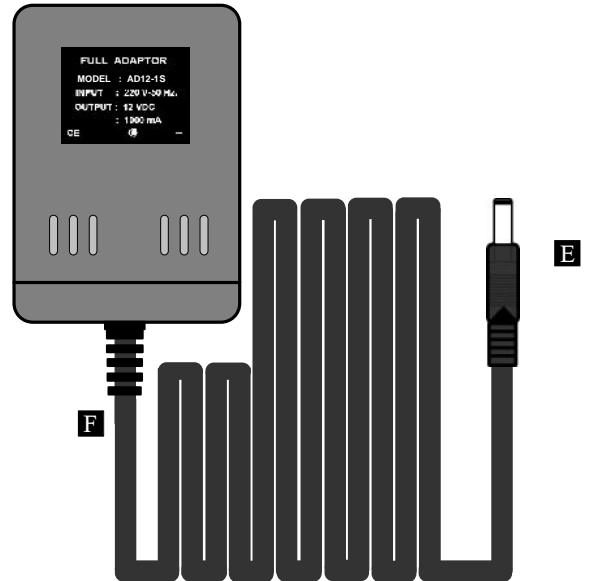
Front&amp;Rear View



Bottom View



Top View



Character	Description	mm/inch
A	Length of Adapter Box	80/3.15
B	Height of Adapter Box	48/1.89
C	Width of Adapter Box	57/2.24
D	Input Connection for 220 Vac.,50 Hz.	-
E	Output Connection for 13 VDC.,1.0A.	-
F	Output Cable 2X0.75 sq mm with ABS. Plastic Type of Box Insulation	1500/59.06 Length

### Product Specifications

<b>Input Voltage :</b>	220 Vac., 50 -60 Hz.
<b>Output Voltage :</b>	13 Vdc.
<b>Output Current :</b>	1.0A. ( 500 mA continuous)
<b>Output Power (VA) :</b>	13 VA.
<b>Flux density :</b>	1.25 Wb/m <sup>2</sup>
<b>Short-Circuit Protection :</b>	Output short circuit protection, thermal over load.
<b>Temperature Rise :</b>	29 °C.
<b>Steady State Times :</b>	264 mS.
<b>Dimensions :</b>	80 mm/3.15" X 48 mm/1.89" X 57 mm/2.24"
<b>Weight :</b>	0.45 kg.
<b>Ambient Operating Temp. :</b>	0-55 °C.
<b>Input Connection :</b>	Standard AC Plug on Adaptor Box (Wall type ).
<b>Output Connection :</b>	Standard Adaptor Cord.

### Customer Confirmed

Company logo Sealed	Approved by :
	Position :