

## FEATURES :

- Wide Input Voltage 90 to 264VAC, 47 to 63Hz
- High Efficiency Up To 78%
- DOE6 Certification for Energy Efficiency
- Optional Output Connector
- No Load Power Consumption < 0.1W
- 2 Pole USA Plug
- Class II
- 2 Year warranty
- ROHS Compliant

Specifications typical at TA=25°C, nominal input voltage and rated output current unless otherwise specified

| Part Number  | Output Wattage<br>(W) | Output Voltage<br>(VDC) | Output Current<br>(mA) | Ripple & Noise<br>(mV)<br>max(Note) | Efficiency<br>(TYP %) |
|--------------|-----------------------|-------------------------|------------------------|-------------------------------------|-----------------------|
| VAE05W-V050U | 5                     | 5                       | 1000                   | 200                                 | 74                    |
| VAE05W-V080U | 5                     | 8                       | 625                    | 200                                 | 78                    |

## Input Specifications

| Parameters          | Conditions | Min | Typ     | Max  | Units |
|---------------------|------------|-----|---------|------|-------|
| Rated input voltage | Vo, Io nom |     | 100-240 |      | Vac   |
| Voltage Range       | Vo, Io nom | 90  |         | 264  | Vac   |
| Frequency           |            | 47  | 50/60   | 63   | Hz    |
| AC CURRENT          | 115VAC     |     |         | 0.15 | A     |
|                     | 230VAC     |     |         | 0.10 | A     |
| LEAKAGE CURRENT     | 240VAC     |     |         | 0.25 | mA    |

## Output Specifications

| Parameters              | Conditions              | Min                                                                                                               | Typ | Max | Units |
|-------------------------|-------------------------|-------------------------------------------------------------------------------------------------------------------|-----|-----|-------|
| Output Voltage Accuracy | Vi nom, Io nom          | Vo                                                                                                                |     | ±5  | %     |
| Output Voltage          | No Load                 | Vo=5V                                                                                                             |     | 5.5 | V     |
|                         |                         | Vo=8V                                                                                                             |     | 10  | V     |
| Line Regulation         | Io nom, Vi min...Vi max |                                                                                                                   | ±1  |     | %     |
| Load Regulation         | Vi nom, Io min...Io nom | Vo                                                                                                                | ±5  |     | %     |
| Protection              | Overload                | >110% rated output power<br>Protection type: Hiccup mode, recovers automatically after fault condition is removed |     |     |       |
|                         | Short circuit           | Recovers automatically after fault condition is removed                                                           |     |     |       |

**Note:** Ripple & noise is measured by using 20 MHz bandwidth, measured with a 47uf paralleled with a high-frequency 0.47uf capacitor across each output by full load.

YUAN DEAN SCIENTIFIC



Wallplugged Power Supply

AC Adaptor

VAE05W SERIES

5Watt 3KVac Isolated

90 to 264VAC Input Voltage

Single Output

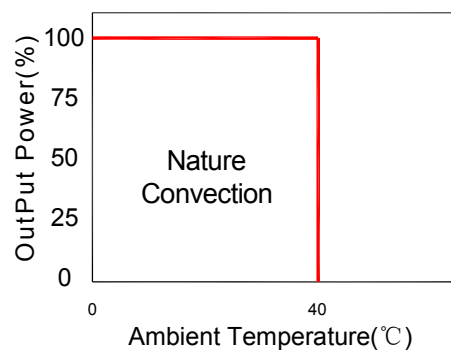
CB  
Scheme

FC

VI

cULUS  
LISTEDROHS  
COMPLIANT2 YEARS  
WARRANTY

## Temperature Derating Graph



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TEL : 886-6-3842899 FAX : 886-6-3843288  
E-MAIL : ydsweb@yds.com.tw

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General Specifications

| Parameters                 | Conditions                  | Min | Typ             | Max | Units |
|----------------------------|-----------------------------|-----|-----------------|-----|-------|
| Switching Frequency        | Vi nom, Io nom              |     | 65              |     | KHz   |
| Isolation Voltage          | Input / Output              |     | 3KVac/5mA/5Secs |     |       |
| Isolation Resistance       | Input / Output,@500 Vdc     | 100 |                 |     | MΩ    |
| Operating Temperature      | Operating at Vi nom, Io nom | 0   |                 | +40 | ℃     |
| Storage Temperature        | Non Operational             | -20 |                 | +85 | ℃     |
| Relative Humidity          | Vi nom, Io nom              | 20  |                 | 90  | % RH  |
| Safety Standards           | EN62368-1 approved          |     |                 |     |       |
| EMI Conduction & Radiation | Compliance to EN55032       |     |                 |     |       |
| EMS Immunity               | Compliance to EN55024       |     |                 |     |       |
| CASE Color                 | White                       |     |                 |     |       |
| Dimension                  | L31.6 x W30.0 x H29.0 mm    |     |                 |     |       |
| Cooling                    | Free air convection         |     |                 |     |       |

Markings and Dimensions

