

## YS16V SERIES



**Input: 100-265VAC 50/60Hz**

**Output Voltage: 5V-36V DC**

**Rated Power: 18W max**

### Features

Universal AC input/ Full range

Energy efficiency level VI

Leakage Current: < 0.25mA

Extremely low leakage current

Protection: Over load/Over voltage/Short circuit

Withstand voltage : 3KV

Life Warranty: 3 years

### Application

Digital equipment

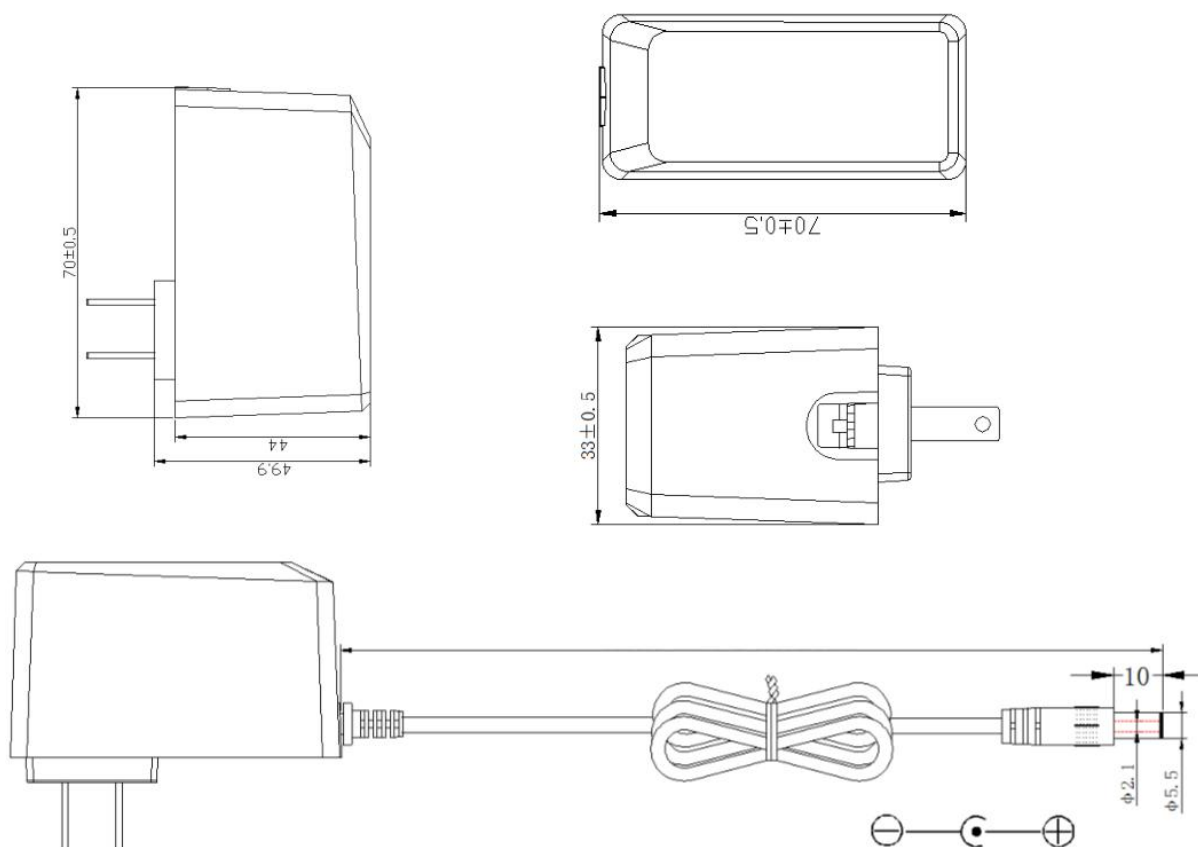
Electric curtains

Kitchen appliances

Household appliances



### ■ Dimensions and Installation

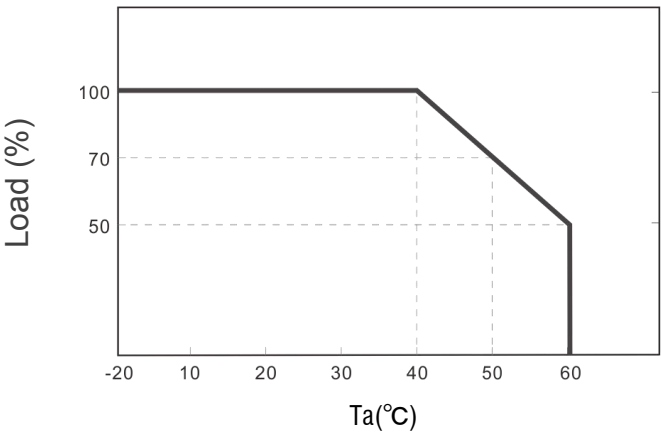


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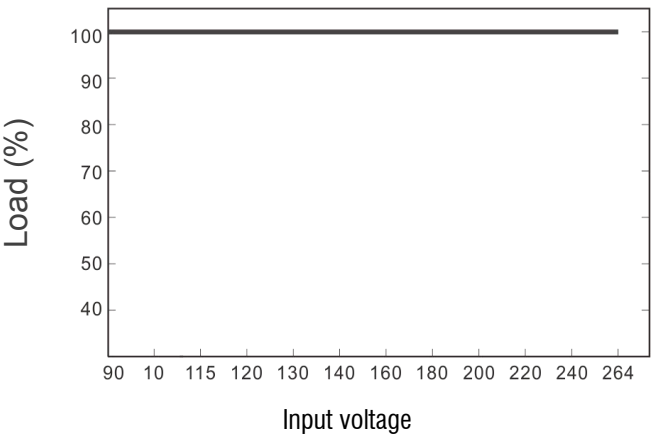
| MODEL DETAIL SPEC. |                            | YS16V-0503000                                                                                                         | YS16V-0902000 | YS16V-1201500 | YS16V-1801000 | YS16V-2400750 | YS16V-3600500 |
|--------------------|----------------------------|-----------------------------------------------------------------------------------------------------------------------|---------------|---------------|---------------|---------------|---------------|
| INPUT              | Input Voltage:             | 85-265VAC                                                                                                             |               |               |               |               |               |
|                    | Input Frequency:           | 50/60Hz                                                                                                               |               |               |               |               |               |
|                    | Inrush Current:            | 15A/115VAC 30A/230VAC                                                                                                 |               |               |               |               |               |
|                    | AC Current:                | 0.2A/115VAC 0.21A/230VAC                                                                                              |               |               |               |               |               |
|                    | Leakage Current:           | < 0.25mA/240VAC                                                                                                       |               |               |               |               |               |
|                    | Efficiency:                | 81.84%                                                                                                                | 86.52%        | 86.8%         | 86.33%        | 86.8%         | 86.33%        |
| OUTPUT             | DC Voltage:                | 5V                                                                                                                    | 9V            | 12V           | 18V           | 24V           | 36V           |
|                    | Rated Current:             | 3A                                                                                                                    | 2A            | 1.5A          | 1A            | 0.75A         | 0.5A          |
|                    | Rated Power:               | 15W                                                                                                                   | 18W           | 18W           | 18W           | 18W           | 18W           |
|                    | Voltage Tolerance:         | ±5.0%                                                                                                                 | ±5.0%         | ±5.0%         | ±5.0%         | ±5.0%         | ±5.0%         |
|                    | Ripple and Noise:          | 75mVp-p                                                                                                               | 90mVp-p       | 120mVp-p      | 180mVp-p      | 240mVp-p      | 300mVp-p      |
|                    | Line Regulation:           | ±3%                                                                                                                   |               |               |               |               |               |
|                    | Load Regulation:           | ±5%                                                                                                                   | ±5%           | ±5%           | ±5%           | ±5%           | ±5%           |
|                    | Setup, Rise, Hold Up time: | 500ms, 30ms/120ms 230VAC 1000ms, 30ms/25ms 115VAC at full load                                                        |               |               |               |               |               |
| ENVIRONMENTAL      | Operating Temperature:     | -20 ~ +60 (Refer to "Derating Curve")                                                                                 |               |               |               |               |               |
|                    | Storage Temp:              | -40°C ~ 85°C                                                                                                          |               |               |               |               |               |
|                    | Storage Humidity:          | 10 ~ 95% RH                                                                                                           |               |               |               |               |               |
|                    | Working Humidity:          | 20 ~ 95% RH non-condensing                                                                                            |               |               |               |               |               |
| PROTECTION         | Over Load:                 | Above 105% rated output power                                                                                         |               |               |               |               |               |
|                    |                            | Protection type: Hiccup mode, recovers automatically after fault condition is removed                                 |               |               |               |               |               |
|                    | Over Voltage:              | 5V:5.75~ 6.75V 9V:10.35~12.15V 12V:13.8 ~ 16.2V 18V:20.7~24.3V 24V:27.6 ~ 32.4V 36V:41.4~48.6V                        |               |               |               |               |               |
|                    |                            | Protection type: Shut down o/p voltage, re-power on to recover                                                        |               |               |               |               |               |
|                    | Over Temperature:          | Shut down o/p voltage, re-power on to recover                                                                         |               |               |               |               |               |
| SAFETY & EMC       | Safety Regulations:        | UL62368, TUV BS EN/EN62368-1, EAC TP TC 004, BSMI CNS14336-1, AS/NZS 62368.1 approved                                 |               |               |               |               |               |
|                    | Withstand Voltage:         | I/P-O/P:3KVAC I/P-FG:2KVAC O/P-FG:0.5KVAC                                                                             |               |               |               |               |               |
|                    | Isolation Resistance:      | I/P-O/P, I/P-FG, O/P-FG:100M Ohms / 500VDC / 25°C/ 70% RH                                                             |               |               |               |               |               |
|                    | EMC Emission:              | Compliance to BS EN/EN55032 (CISPR32), BS EN/EN61204-3 Class B, BS EN/EN61000-3-2,-3, EAC TP TC 020, CNS13438 Class B |               |               |               |               |               |
|                    | EMC Immunity:              | EN/EN61000-4-2,3,4,5,6,8,11                                                                                           |               |               |               |               |               |
| OTHER              | MTBF:                      | 100Khrs min. MIL-HDBK-217F(25°C)                                                                                      |               |               |               |               |               |
|                    | Size:                      | 70*33*80mm                                                                                                            |               |               |               |               |               |
|                    | Weight:                    | 120g / pcs                                                                                                            |               |               |               |               |               |
|                    | Packaging:                 | 100PCS/CTN                                                                                                            |               |               |               |               |               |

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Deduction curve and temperature



Minus output and input voltage curves



Functional Diagram

Standard plug: P1J

| P1J                                                                                 | Pin Assignment                                                                                       |
|-------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------|
|  |                 |
|                                                                                     | Outside  Inside |
|                                                                                     | -V not connected to AC FG(standard)                                                                  |
|                                                                                     | -V connected to AC FG(optional)                                                                      |

DC plug changeable through:

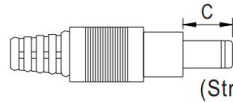
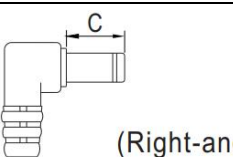
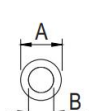
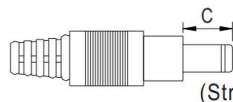
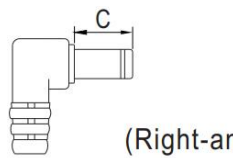
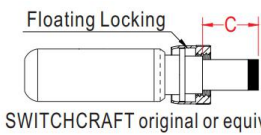
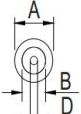
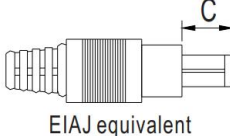
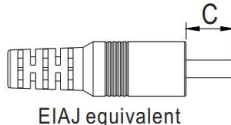
- (1) Customization of the standard part with an optional DC plug according to the table (MOQ applicable)
- (2) Quick adapter accessory (sold separately without MOQ)

Please refer to below table and online selection guide :

Example quick adapter accessory:

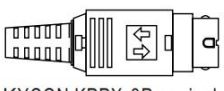
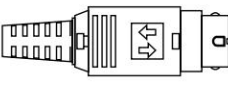
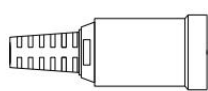
## YS18V SERIES

Optional DC plug: (Available in customized cable or quick adapter)

| Tuning Fork Style                                                                                                                                                                                                                                                                   |                                                                                                       |      | Type No. | A    | B     | C                                           | Quick Adapter Accessory                   |                                             |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------|------|----------|------|-------|---------------------------------------------|-------------------------------------------|---------------------------------------------|
|                                                                                                                                                                                                                                                                                     |                                                                                                       |      |          | OD   | ID    | L                                           |                                           |                                             |
| <br>                                                                                                               | <br>(Straight)       | P1I  | 5.5      | 2.1  | 9.5   | Available<br>(Current rating:<br>7.5A max.) |                                           |                                             |
|                                                                                                                                                                                                                                                                                     |                                                                                                       | P1L  | 5.5      | 2.5  | 9.5   |                                             |                                           |                                             |
|                                                                                                                                                                                                                                                                                     |                                                                                                       | P1M  | 5.5      | 2.1  | 11.0  |                                             |                                           |                                             |
|                                                                                                                                                                                                                                                                                     | <br>(Right-angled)   | P1IR | 5.5      | 2.5  | 9.5   |                                             |                                           |                                             |
|                                                                                                                                                                                                                                                                                     |                                                                                                       | P1JR | 5.5      | 2.1  | 11.0  |                                             |                                           |                                             |
|                                                                                                                                                                                                                                                                                     |                                                                                                       | P1LR | 5.5      | 2.5  | 9.5   |                                             |                                           |                                             |
|                                                                                                                                                                                                                                                                                     |                                                                                                       | P1MR | 5.5      | 2.5  | 11.0  |                                             |                                           |                                             |
| Barrel Style                                                                                                                                                                                                                                                                        |                                                                                                       |      | Type No. | A    | B     | C                                           | Quick Adapter Accessory                   |                                             |
|                                                                                                                                                                                                                                                                                     |                                                                                                       |      |          | OD   | ID    | L                                           |                                           |                                             |
| <br>                                                                                                           | <br>(Straight)     | P2I  | 5.5      | 2.1  | 9.5   | None                                        |                                           |                                             |
|                                                                                                                                                                                                                                                                                     |                                                                                                       | P2J  | 5.5      | 2.1  | 11.0  |                                             |                                           |                                             |
|                                                                                                                                                                                                                                                                                     |                                                                                                       | P2L  | 5.5      | 2.5  | 9.5   |                                             |                                           |                                             |
|                                                                                                                                                                                                                                                                                     |                                                                                                       | P2M  | 5.5      | 2.1  | 11.0  |                                             |                                           |                                             |
|                                                                                                                                                                                                                                                                                     | <br>(Right-angled) | P2IR | 5.5      | 2.5  | 9.5   |                                             |                                           |                                             |
|                                                                                                                                                                                                                                                                                     |                                                                                                       | P2JR | 5.5      | 2.1  | 11.0  |                                             |                                           |                                             |
|                                                                                                                                                                                                                                                                                     |                                                                                                       | P2LR | 5.5      | 2.5  | 9.5   |                                             |                                           |                                             |
|                                                                                                                                                                                                                                                                                     |                                                                                                       | P2MR | 5.5      | 2.5  | 11.0  |                                             |                                           |                                             |
| Lock Style                                                                                                                                                                                                                                                                          |                                                                                                       |      | Type No. | A    | B     | C                                           |                                           |                                             |
|                                                                                                                                                                                                                                                                                     |                                                                                                       |      |          | OD   | ID    | L                                           |                                           |                                             |
| <br><br>                    | P2S(S761K)                                                                                            |      | 5.53     | 2.03 | 12.06 | None                                        |                                           |                                             |
|                                                                                                                                                                                                                                                                                     | P2K(761K)                                                                                             |      | 5.53     | 2.54 | 12.06 |                                             |                                           |                                             |
|                                                                                                                                                                                                                                                                                     | P2C(S760K)                                                                                            |      | 5.53     | 2.03 | 9.52  |                                             |                                           |                                             |
|                                                                                                                                                                                                                                                                                     | P2D(760K)                                                                                             |      | 5.53     | 2.54 | 9.52  |                                             |                                           |                                             |
| Center Pin Style                                                                                                                                                                                                                                                                    |                                                                                                       |      | Type No. | A    | B     | C                                           | D                                         | Available<br>(Current rating:<br>7.5A max.) |
|                                                                                                                                                                                                                                                                                     |                                                                                                       |      |          | OD   | ID    | L                                           |                                           |                                             |
| <br><br><br>EIAJ equivalent | P4A                                                                                                   |      | 5.5      | 3.4  | 11.0  | 1.0                                         |                                           |                                             |
|                                                                                                                                                                                                                                                                                     | P4B                                                                                                   |      | 6.5      | 4.4  | 11.0  | 1.4                                         |                                           |                                             |
|                                                                                                                                                                                                                                                                                     | P4C                                                                                                   |      | 7.4      | 5.1  | 11.0  | 0.6                                         |                                           |                                             |
| Min. Pin Style                                                                                                                                                                                                                                                                      |                                                                                                       |      | Type No. | A    | B     | C                                           | Available<br>(Current rating:<br>5A max.) |                                             |
|                                                                                                                                                                                                                                                                                     |                                                                                                       |      |          | OD   | ID    | L                                           |                                           |                                             |
| <br><br><br>EIAJ equivalent | P3A                                                                                                   |      | 2.35     | 0.7  | 11.0  |                                             |                                           |                                             |
|                                                                                                                                                                                                                                                                                     | P3B                                                                                                   |      | 4.0      | 1.7  | 11.0  |                                             |                                           |                                             |
|                                                                                                                                                                                                                                                                                     | P3C                                                                                                   |      | 4.75     | 1.7  | 11.0  |                                             |                                           |                                             |

## YS18V SERIES

Optional DC plug: (Available in customized cable or quick adapter)

| Tuning Fork Style                                                                                                                                                                                                                                                                         | Type No.    | Pin Assignment |        | Quick Adapter Accessory                     |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|----------------|--------|---------------------------------------------|
|                                                                                                                                                                                                                                                                                           |             | PIN No.        | Output |                                             |
|   <br>KYCON KPPX-3P equivalent          | R6B         | 1              | +Vo    | Available<br>(Current rating:<br>7.5A max.) |
|                                                                                                                                                                                                                                                                                           |             | 2              | -Vo    |                                             |
|                                                                                                                                                                                                                                                                                           |             | 3              | +Vo    |                                             |
| Barrel Style                                                                                                                                                                                                                                                                              | Type No.    | Pin Assignment |        |                                             |
|                                                                                                                                                                                                                                                                                           |             | PIN No.        | Output |                                             |
|   <br>KYCON KPPX-4P equivalent          | R7B         | PIN No.        | Output | Available<br>(Current rating:<br>7.5A max.) |
|                                                                                                                                                                                                                                                                                           |             | 1              | +Vo    |                                             |
|                                                                                                                                                                                                                                                                                           |             | 2              | -Vo    |                                             |
|                                                                                                                                                                                                                                                                                           |             | 3              | -Vo    |                                             |
|                                                                                                                                                                                                                                                                                           |             | 4              | +Vo    |                                             |
| Lock Style                                                                                                                                                                                                                                                                                | Type No.    | Pin Assignment |        |                                             |
|                                                                                                                                                                                                                                                                                           |             | PIN No.        | Output |                                             |
|   <br>KYCON KPJX-CM-4S equivalent | R7BF        | PIN No.        | Output | None                                        |
|                                                                                                                                                                                                                                                                                           |             | 1              | +Vo    |                                             |
|                                                                                                                                                                                                                                                                                           |             | 2              | -Vo    |                                             |
|                                                                                                                                                                                                                                                                                           |             | 3              | -Vo    |                                             |
|                                                                                                                                                                                                                                                                                           |             | 4              | +Vo    |                                             |
| Center Pin Style                                                                                                                                                                                                                                                                          | Type No.    | Pin Assignment |        |                                             |
|                                                                                                                                                                                                                                                                                           |             | PIN No.        | Output |                                             |
|                                   | R1B         | PIN No.        | Output | Available<br>(Current rating:<br>7.5A max.) |
|                                                                                                                                                                                                                                                                                           |             | 1              | -Vo    |                                             |
|                                                                                                                                                                                                                                                                                           |             | 2              | -Vo    |                                             |
|                                                                                                                                                                                                                                                                                           |             | 3              | +Vo    |                                             |
|                                                                                                                                                                                                                                                                                           |             | 4              | -Vo    |                                             |
|                                                                                                                                                                                                                                                                                           |             | 5              | +Vo    |                                             |
| Center Pin Style                                                                                                                                                                                                                                                                          | Type No.    | Pin Assignment |        |                                             |
|                                                                                                                                                                                                                                                                                           |             | PIN No.        | Output |                                             |
|                                   | by customer | 1              | +Vo    | None                                        |
|                                                                                                                                                                                                                                                                                           |             | 2              | -Vo    |                                             |