

## YS16V-U SERIES



**Input: 85-265VAC 50/60Hz**  
**Output Voltage: 5V-36V DC**  
**Rated Power: 18W max**

### Features

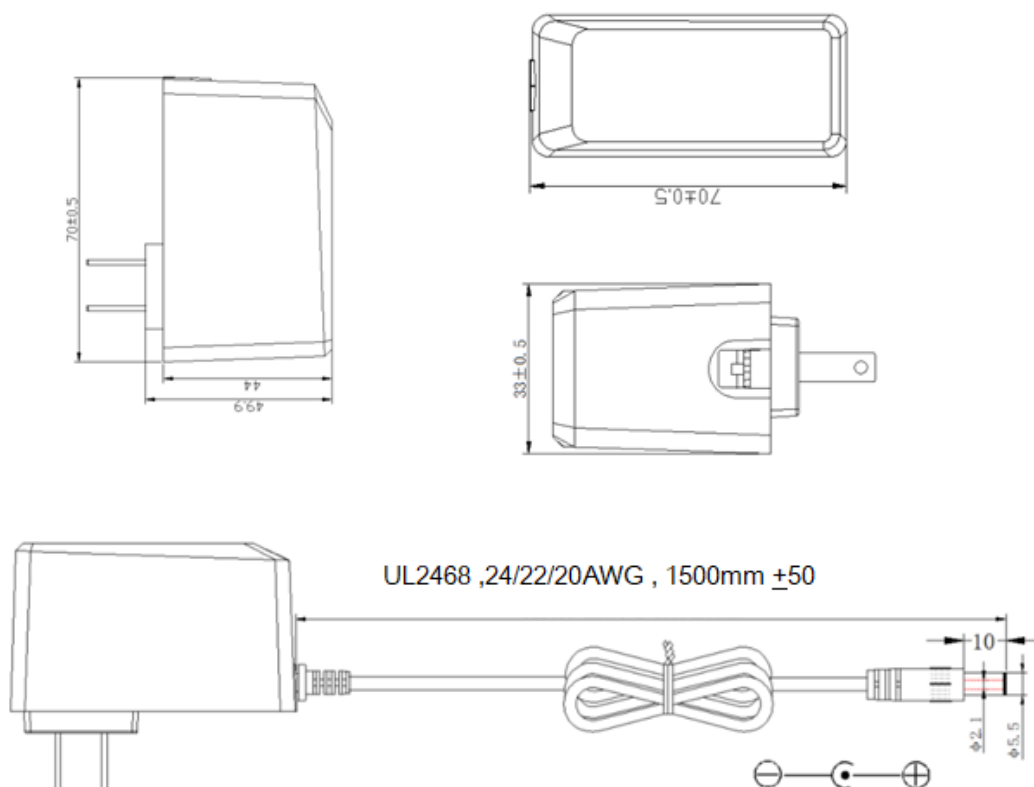
Univeral AC input/ Full range  
 Energy efficiency level VI  
 Leakage Current: < 0.25mA  
 Extremely low leakage current  
 Protection: Over load/Over voltage/Short circuit  
 Withstand voltage : 3KV  
 Life Warranty: 3 years

### Application

Digital equipment  
 Consumer electronic devices  
 Telecommunication devices  
 Office facilities  
 Industrial equipments



### ■ Dimensions and Installation

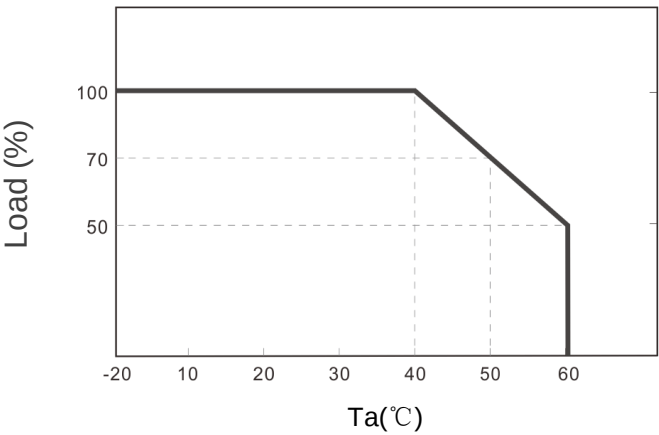


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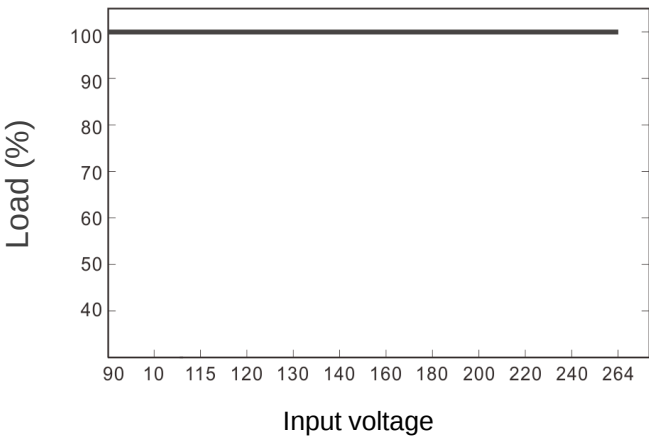
| MODEL DETAIL SPEC. |                            | YS16V-0503000                                                                         | YS16V-0902000 | YS16V-1201500 | YS16V-1501600 | YS16V-2400750 | YS16V-3600500 |
|--------------------|----------------------------|---------------------------------------------------------------------------------------|---------------|---------------|---------------|---------------|---------------|
| INPUT              | Input Voltage:             | 85-265VAC                                                                             |               |               |               |               |               |
|                    | Input Frequency:           | 50/60Hz                                                                               |               |               |               |               |               |
|                    | Inrush Current:            | 15A/115VAC 30A/230VAC                                                                 |               |               |               |               |               |
|                    | AC Current:                | 0.6A/115VAC 0.3A/230VAC                                                               |               |               |               |               |               |
|                    | Leakage Current:           | < 0.25mA/240VAC                                                                       |               |               |               |               |               |
|                    | Efficiency:                | 81%                                                                                   | 85%           | 86%           | 87%           | 87%           | 88%           |
| OUTPUT             | DC Voltage:                | 5V                                                                                    | 9V            | 12V           | 15V           | 24V           | 36V           |
|                    | Rated Current:             | 3A                                                                                    | 2A            | 1.5A          | 1.6A          | 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      | 150mVp-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℃ ~ 85℃                                                                            |               |               |               |               |               |
|                    | Storage Humidity:          | 10 ~ 95% RH                                                                           |               |               |               |               |               |
|                    | Working Humidity:          | 20 ~ 95% RH non-condensing                                                            |               |               |               |               |               |
| PROTECTION         | Over Load:                 | 105% -150% rated output power                                                         |               |               |               |               |               |
|                    |                            | Protection type: Hiccup mode, recovers automatically after fault condition is removed |               |               |               |               |               |
|                    | Over Voltage:              | 105% -130% rated output power                                                         |               |               |               |               |               |
|                    |                            | Protection type: Shut down o/p voltage, re-power on to recover                        |               |               |               |               |               |
|                    | Short Circuit :            | Shut down o/p voltage, re-power on to recover                                         |               |               |               |               |               |
| SAFETY & EMC       | Safety Regulations:        | UL62368-1 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℃/ 70% RH                              |               |               |               |               |               |
|                    | EMC Emission:              | FCC Part15/CISPR22, CAN ICES-3(B) NMB-3(B), Class B                                   |               |               |               |               |               |
|                    | EMC Immunity:              | FCC Part15/CISPR22, CAN ICES-3(B) NMB-3(B), Class B                                   |               |               |               |               |               |
| OTHER              | MTBF:                      | 100Khrs min. MIL-HDBK-217F(25℃)                                                       |               |               |               |               |               |
|                    | Size:                      | 70*33*80mm                                                                            |               |               |               |               |               |
|                    | Weight:                    | 120g / pcs                                                                            |               |               |               |               |               |
|                    | Packaging:                 | 100PCS/CTN                                                                            |               |               |               |               |               |

YS16V-U SERIES

Deduction curve  
and temperature

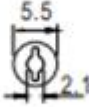
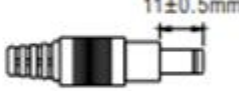


Minus output  
and input voltage curves



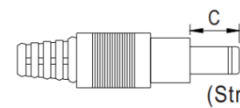
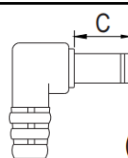
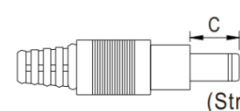
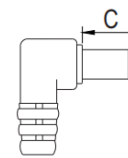
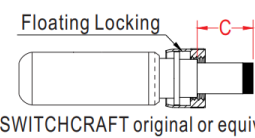
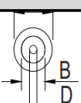
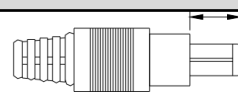
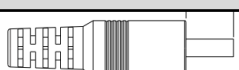
■ DC output plug

Standard plug: D1M

| D1M                                                                                 |                                                                                     |                                                                                     | Pin Assignment                                                                        |        |
|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|--------|
|  |  |  |  |        |
|                                                                                     |                                                                                     |                                                                                     | Outside                                                                               | Inside |
|                                                                                     |                                                                                     |                                                                                     | <p>-V not connected to AC FG(standard)</p> <p>-V connected to AC FG(optional)</p>     |        |

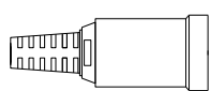
## YS18V-U SERIES

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)       | D1I      | 5.5  | 2.1   | 9.5                                       | Available<br>(Current rating:<br>7.5A max.) |                         |
|                                                                                                                                                                                                                                                                                                                            |                                                                                                       | D1L      | 5.5  | 2.5   | 9.5                                       |                                             |                         |
|                                                                                                                                                                                                                                                                                                                            |                                                                                                       | D1M      | 5.5  | 2.1   | 11.0                                      |                                             |                         |
|                                                                                                                                                                                                                                                                                                                            | <br>(Right-angled)   | D1IR     | 5.5  | 2.5   | 9.5                                       |                                             |                         |
|                                                                                                                                                                                                                                                                                                                            |                                                                                                       | D1JR     | 5.5  | 2.1   | 11.0                                      |                                             |                         |
|                                                                                                                                                                                                                                                                                                                            |                                                                                                       | D1LR     | 5.5  | 2.5   | 9.5                                       |                                             |                         |
|                                                                                                                                                                                                                                                                                                                            |                                                                                                       | D1MR     | 5.5  | 2.5   | 11.0                                      |                                             |                         |
| Barrel Style                                                                                                                                                                                                                                                                                                               |                                                                                                       | Type No. | A    | B     | C                                         | Quick Adapter Accessory                     |                         |
|                                                                                                                                                                                                                                                                                                                            |                                                                                                       |          | OD   | ID    | L                                         |                                             |                         |
| <br>                                                                                                                                                  | <br>(Straight)      | D2I      | 5.5  | 2.1   | 9.5                                       | None                                        |                         |
|                                                                                                                                                                                                                                                                                                                            |                                                                                                       | D2J      | 5.5  | 2.1   | 11.0                                      |                                             |                         |
|                                                                                                                                                                                                                                                                                                                            |                                                                                                       | D2L      | 5.5  | 2.5   | 9.5                                       |                                             |                         |
|                                                                                                                                                                                                                                                                                                                            |                                                                                                       | D2M      | 5.5  | 2.1   | 11.0                                      |                                             |                         |
|                                                                                                                                                                                                                                                                                                                            | <br>(Right-angled) | D2IR     | 5.5  | 2.5   | 9.5                                       |                                             |                         |
|                                                                                                                                                                                                                                                                                                                            |                                                                                                       | D2JR     | 5.5  | 2.1   | 11.0                                      |                                             |                         |
|                                                                                                                                                                                                                                                                                                                            |                                                                                                       | D2LR     | 5.5  | 2.5   | 9.5                                       |                                             |                         |
|                                                                                                                                                                                                                                                                                                                            |                                                                                                       | D2MR     | 5.5  | 2.5   | 11.0                                      |                                             |                         |
| Lock Style                                                                                                                                                                                                                                                                                                                 |                                                                                                       | Type No. | A    | B     | C                                         | Quick Adapter Accessory                     |                         |
|                                                                                                                                                                                                                                                                                                                            |                                                                                                       |          | OD   | ID    | L                                         |                                             |                         |
| <br><br><br>Floating Locking<br>SWITCHCRAFT original or equivalent | D2S(S761K)                                                                                            | 5.53     | 2.03 | 12.06 | None                                      |                                             |                         |
|                                                                                                                                                                                                                                                                                                                            | D2K(761K)                                                                                             | 5.53     | 2.54 | 12.06 |                                           |                                             |                         |
|                                                                                                                                                                                                                                                                                                                            | D2C(S760 K)                                                                                           | 5.53     | 2.03 | 9.52  |                                           |                                             |                         |
|                                                                                                                                                                                                                                                                                                                            | D2D(760K)                                                                                             | 5.53     | 2.54 | 9.52  |                                           |                                             |                         |
| Center Pin Style                                                                                                                                                                                                                                                                                                           |                                                                                                       | Type No. | A    | B     | C                                         | D                                           | Quick Adapter Accessory |
|                                                                                                                                                                                                                                                                                                                            |                                                                                                       |          | OD   | ID    | L                                         | Center Pin                                  |                         |
| <br><br><br>EIAJ equivalent                                        | D4A                                                                                                   | 5.5      | 3.4  | 11.0  | 1.0                                       | Available<br>(Current rating:<br>7.5A max.) |                         |
|                                                                                                                                                                                                                                                                                                                            | D4B                                                                                                   | 6.5      | 4.4  | 11.0  | 1.4                                       |                                             |                         |
|                                                                                                                                                                                                                                                                                                                            | D4C                                                                                                   | 7.4      | 5.1  | 11.0  | 0.6                                       |                                             |                         |
| Min. Pin Style                                                                                                                                                                                                                                                                                                             |                                                                                                       | Type No. | A    | B     | C                                         | Quick Adapter Accessory                     |                         |
|                                                                                                                                                                                                                                                                                                                            |                                                                                                       |          | OD   | ID    | L                                         |                                             |                         |
| <br><br><br>EIAJ equivalent                                        | D3A                                                                                                   | 2.35     | 0.7  | 11.0  | Available<br>(Current rating:<br>5A max.) |                                             |                         |
|                                                                                                                                                                                                                                                                                                                            | D3B                                                                                                   | 4.0      | 1.7  | 11.0  |                                           |                                             |                         |
|                                                                                                                                                                                                                                                                                                                            | D3C                                                                                                   | 4.75     | 1.7  | 11.0  |                                           |                                             |                         |

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

| Min.Din 3Pin with Lock (male)                                                                                                                                                                                                                                                             | Type No.    | Pin Assignment |        | Quick Adapter Accessory                     |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|----------------|--------|---------------------------------------------|
|                                                                                                                                                                                                                                                                                           |             | PIN No.        | Output |                                             |
|   <br>KYCON KPPX-3P equivalent          | M6B         | 1              | +Vo    | Available<br>(Current rating:<br>7.5A max.) |
|                                                                                                                                                                                                                                                                                           |             | 2              | -Vo    |                                             |
|                                                                                                                                                                                                                                                                                           |             | 3              | +Vo    |                                             |
| Min.Din 4Pin with Lock (male)                                                                                                                                                                                                                                                             | Type No.    | Pin Assignment |        |                                             |
|                                                                                                                                                                                                                                                                                           |             | PIN No.        | Output |                                             |
|   <br>KYCON KPPX-4P equivalent          | M7B         | PIN No.        | Output | Available<br>(Current rating:<br>7.5A max.) |
|                                                                                                                                                                                                                                                                                           |             | 1              | +Vo    |                                             |
|                                                                                                                                                                                                                                                                                           |             | 2              | -Vo    |                                             |
|                                                                                                                                                                                                                                                                                           |             | 3              | -Vo    |                                             |
|                                                                                                                                                                                                                                                                                           |             | 4              | +Vo    |                                             |
| Min.Din 4Pin with Lock (female)                                                                                                                                                                                                                                                           | Type No.    | Pin Assignment |        |                                             |
|                                                                                                                                                                                                                                                                                           |             | PIN No.        | Output |                                             |
|   <br>KYCON KPJX-CM-4S equivalent | M7BF        | PIN No.        | Output | None                                        |
|                                                                                                                                                                                                                                                                                           |             | 1              | +Vo    |                                             |
|                                                                                                                                                                                                                                                                                           |             | 2              | -Vo    |                                             |
|                                                                                                                                                                                                                                                                                           |             | 3              | -Vo    |                                             |
|                                                                                                                                                                                                                                                                                           |             | 4              | +Vo    |                                             |
| DIN 5Pin (male)                                                                                                                                                                                                                                                                           | Type No.    | Pin Assignment |        |                                             |
|                                                                                                                                                                                                                                                                                           |             | PIN No.        | Output |                                             |
|                                   | M1B         | PIN No.        | Output | Available<br>(Current rating:<br>7.5A max.) |
|                                                                                                                                                                                                                                                                                           |             | 1              | -Vo    |                                             |
|                                                                                                                                                                                                                                                                                           |             | 2              | -Vo    |                                             |
|                                                                                                                                                                                                                                                                                           |             | 3              | +Vo    |                                             |
|                                                                                                                                                                                                                                                                                           |             | 4              | -Vo    |                                             |
|                                                                                                                                                                                                                                                                                           |             | 5              | +Vo    |                                             |
| Stripped and tinned leads                                                                                                                                                                                                                                                                 | Type No.    | Pin Assignment |        |                                             |
|                                                                                                                                                                                                                                                                                           |             | PIN No.        | Output |                                             |
|                                                                                                                                                                                                         | by customer | 1              | +Vo    | None                                        |
|                                                                                                                                                                                                                                                                                           |             | 2              | -Vo    |                                             |