

## YS6V-U SERIES



**Input: 85-265VAC 50/60Hz**  
**Output Voltage: 5V-36V DC**  
**Rated Power: 6W max**

### Features

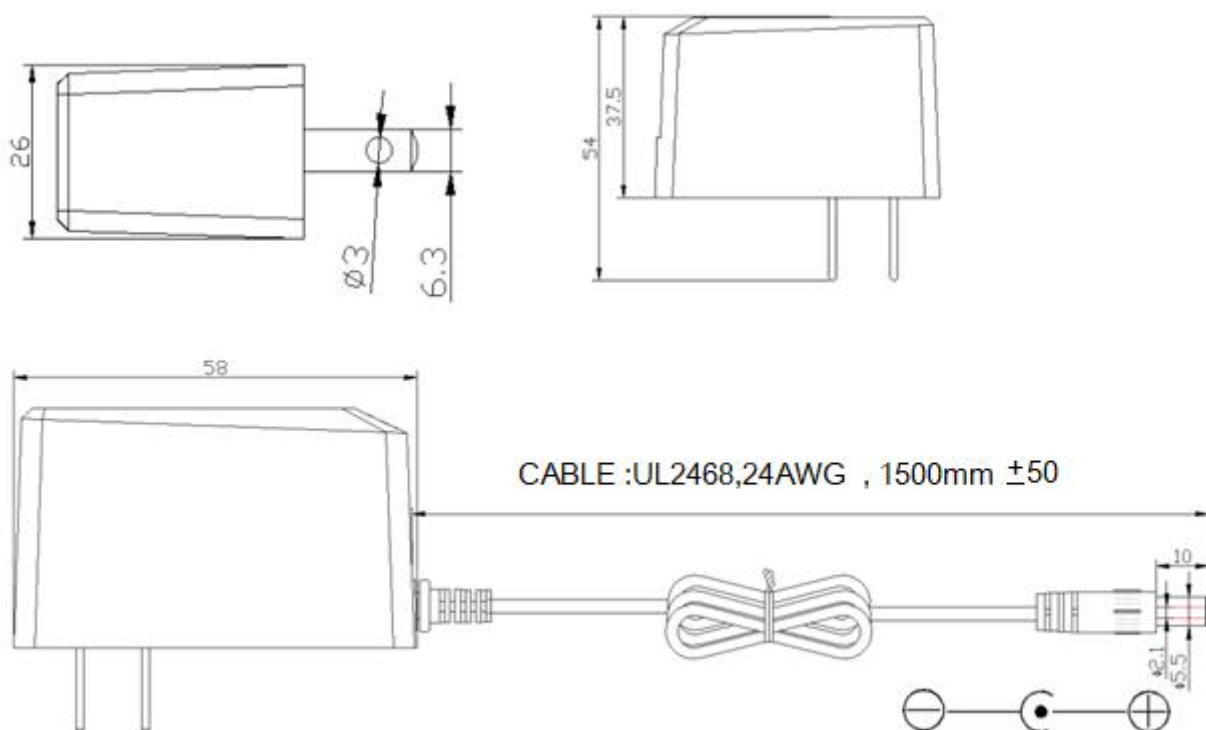
Univeral AC input/ Full range  
 Energy efficiency level VI  
 Leakage Current: < 0.25mA  
 Extremely low leakage current  
 Protection: Over load/Over voltage/Short circuit  
 Withstand voltage : 3KV  
 Life Warranty: 3 years

### Application

Digital equipment  
 Consumer electronic devices  
 Telecommunication devices  
 Office facilities  
 Industrial equipments



### ■ Dimensions and Installation

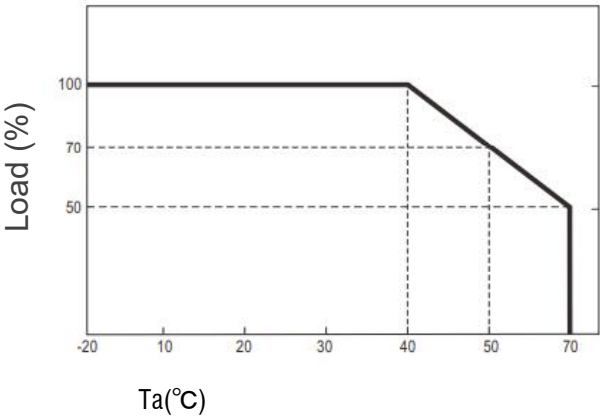


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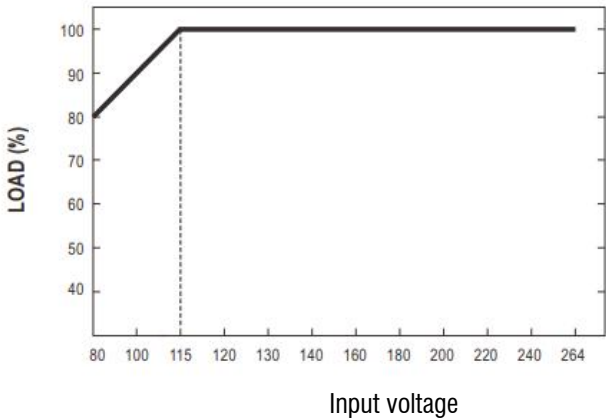
| MODEL DETAIL SPEC. |                            | YS6V-0501200U                                                                         | YS6V-0601000U | YS6V-0750800 | YS6V-0900660 | YS6V-1200500 | YS6V-2400250 |
|--------------------|----------------------------|---------------------------------------------------------------------------------------|---------------|--------------|--------------|--------------|--------------|
| 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:                | 75%                                                                                   | 77%           | 80%          | 80%          | 81%          | 82%          |
| OUTPUT             | DC Voltage:                | 5V                                                                                    | 6V            | 9V           | 12V          | 15V          | 24V          |
|                    | Rated Current:             | 1.2A                                                                                  | 1A            | 0.66A        | 0.5A         | 0.4A         | 0.25A        |
|                    | Rated Power:               | 6W                                                                                    | 6W            | 6W           | 6W           | 6W           | 6W           |
|                    | Voltage Tolerance:         | ±5.0%                                                                                 | ±5.0%         | ±5.0%        | ±5.0%        | ±5.0%        | ±5.0%        |
|                    | Ripple and Noise:          | 75mVp-p                                                                               | 75mVp-p       | 90mVp-p      | 120mVp-p     | 120mVp-p     | 200mVp-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 ~ +70 (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:                 | 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                        |               |              |              |              |              |
|                    | Over Temperature:          | 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°C/ 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:                      | 500Khrs min. MIL-HDBK-217F(25°C)                                                      |               |              |              |              |              |
|                    | Size:                      | 58*26*35mm                                                                            |               |              |              |              |              |
|                    | Weight:                    | 70g / pcs                                                                             |               |              |              |              |              |
|                    | Packaging:                 | 100PCS/CTN                                                                            |               |              |              |              |              |

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Deduction curve  
and temperature

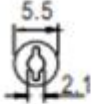


Minus output  
and input voltage curves



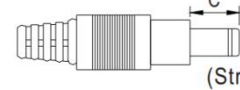
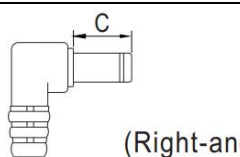
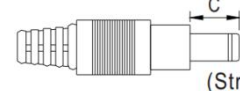
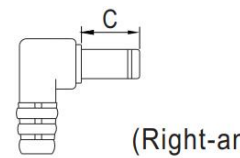
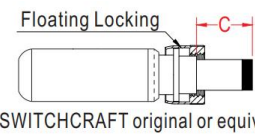
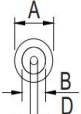
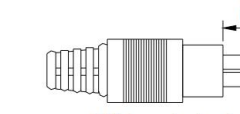
■ DC output plug

Standard plug: D1M

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

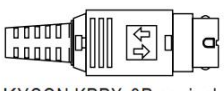
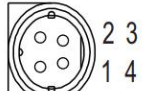
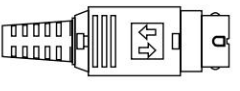
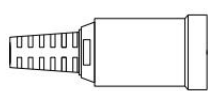
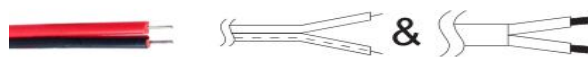
## YS6V-U SERIES

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>         | (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  |                                             |                                             |                         |
|                                                                                                                                                                                                                                                                                                                                                   |                                                        | (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> | (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  |                                             |                                             |                         |
|                                                                                                                                                                                                                                                                                                                                                   |                                                        | (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                                           |                                             |                         |
|                                                                                           | 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(S760K)     | 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                                  |                         |
|                                                                                           | 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                                           |                                             |                         |
|                                                                                           | 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    |                                             |