

## YS39-U-60W SERIES



**Input: 85-265VAC 50/60Hz**  
**Output Voltage: 9V-36V DC**  
**Rated Power: 60W max**

### Features

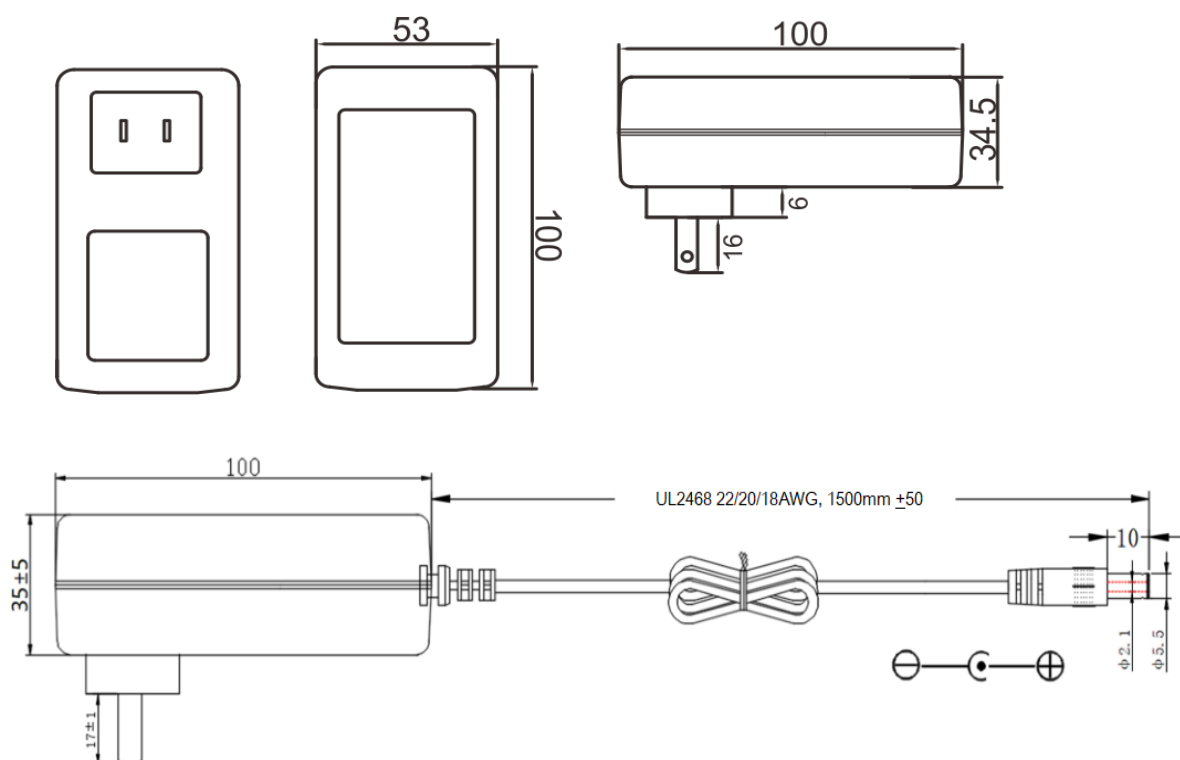
Univeral AC input/ Full range  
 Energy efficiency level VI  
 Leakage Current: < 0.25mA  
 Extremely low leakage current  
 Protection: Over load/Over voltage/Short circuit  
 Withstand voltage : 3KV  
 Life Warranty: 3 years

### Application

Digital equipment  
 Consumer electronic devices  
 Telecommunication devices  
 Office facilities  
 Industrial equipments



### ■ Dimensions and Installation

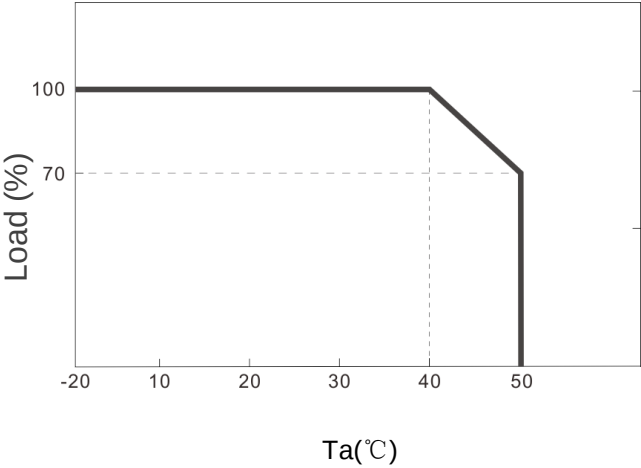


## YS39-U-60W SERIES

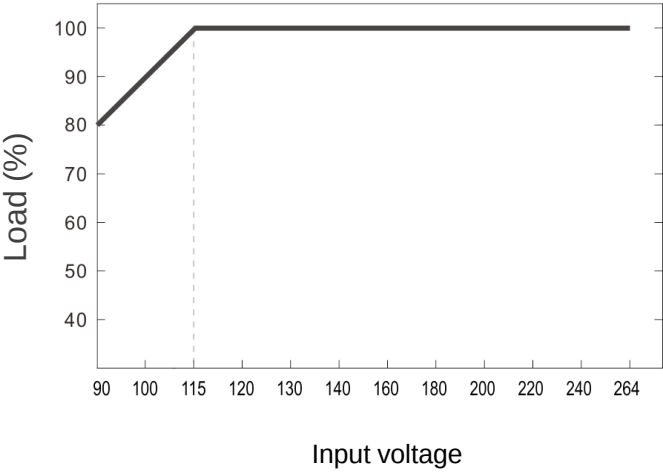
| MODEL DETAIL SPEC. |                            | YS39-0905000                                                                          | YS39-1205000 | YS39-1504000 | YS39-2402500 | YS39-3601660 |
|--------------------|----------------------------|---------------------------------------------------------------------------------------|--------------|--------------|--------------|--------------|
| 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:                | 86.8%                                                                                 | 87.5%        | 87.5%        | 88%          | 88%          |
| OUTPUT             | DC Voltage:                | 9V                                                                                    | 12V          | 15V          | 24V          | 36V          |
|                    | Rated Current:             | 5A                                                                                    | 5A           | 4A           | 2.5A         | 1.66A        |
|                    | Rated Power:               | 45W                                                                                   | 60W          | 60W          | 60W          | 60W          |
|                    | Voltage Tolerance:         | ±5.0%                                                                                 | ±5.0%        | ±5.0%        | ±5.0%        | ±5.0%        |
|                    | Ripple and Noise:          | 90mVp-p                                                                               | 120mVp-p     | 120mVp-p     | 200mVp-p     | 300mVp-p     |
|                    | Line Regulation:           | ±3%                                                                                   |              |              |              |              |
|                    | Load Regulation:           | ±5%                                                                                   |              |              |              |              |
|                    | Setup, Rise, Hold Up time: | 500ms, 30ms/120ms 230VAC 1000ms, 30ms/25ms 115VAC at full load                        |              |              |              |              |
| ENVIRONMENTAL      | Operating Temperature:     | -20 ~ +50 (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                        |              |              |              |              |
|                    | 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℃/ 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:                      | 300Khrs min. MIL-HDBK-217F(25℃)                                                       |              |              |              |              |
|                    | Size:                      | 90*36*54mm                                                                            |              |              |              |              |
|                    | Weight:                    | 250g / pcs                                                                            |              |              |              |              |
|                    | Packaging:                 | 50PCS/CTN                                                                             |              |              |              |              |

YS39-U-60W SERIES

Deduction curve  
and temperature

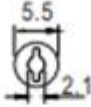


Minus output  
and input voltage curves



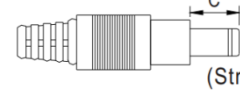
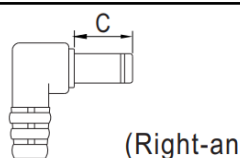
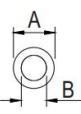
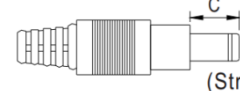
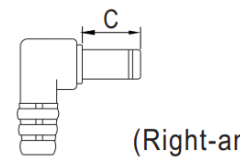
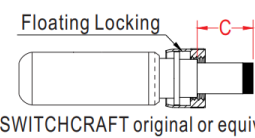
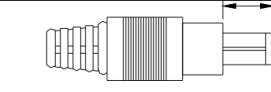
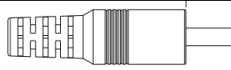
■ DC output plug

Standard plug: D1M

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

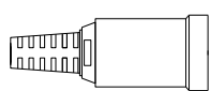
## YS39-U-60W SERIES

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><br>(Straight)<br><br>(Right-angled)         | 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  |                                             |                                             |                         |
|                                                                                                                                                                                                                                                                                                                                                                                         | 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><br>(Straight)<br><br>(Right-angled) | 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  |                                             |                                             |                         |
|                                                                                                                                                                                                                                                                                                                                                                                         | 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  |                                             |                                             |                         |

## YS39-U-60W SERIES

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    |                                             |