

# YSC42 SERIES

## 44W



### Features

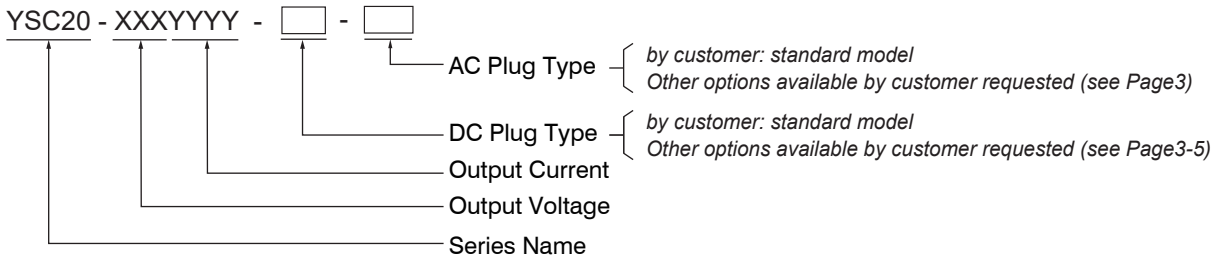
- IP67
- Energy efficiency level VI
- Class II Power Supply
- 3 Years Warranty
- Universal AC input/Full range
- No load power consumption < 0.21W
- Protections: Short Circuit /Over Load / Over Voltage
- -20~ +70°C wide range working temperature

### Applications

- Office Facilities
- Industrial Equipments
- Consumer Electronic Devices
- Telecommunication Devices

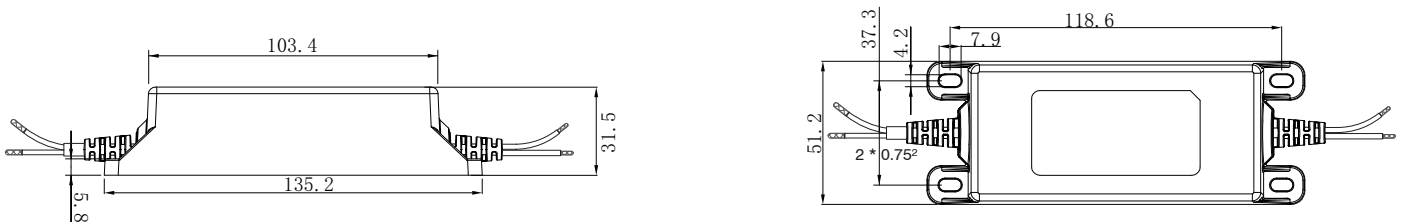


### Model Description

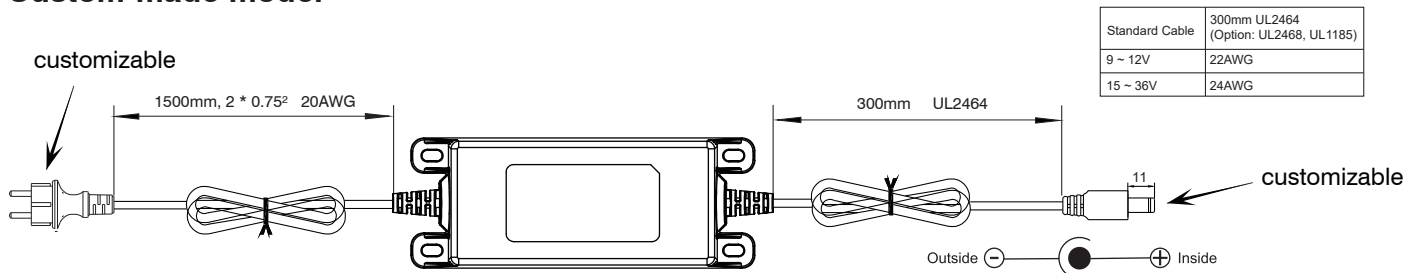


### Dimensions and installation

#### Standard Model



### Custom-made model



File last modification time: 2025-2-25

## Specification

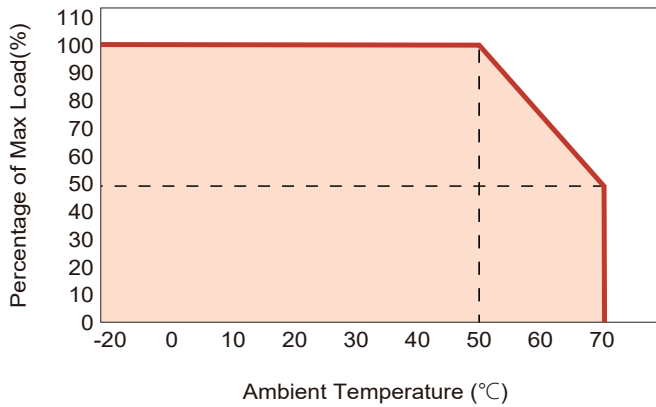
| Model                          | Order P/N  | YSC42-0904880<br>- □ - □  | YSC42-1203660<br>- □ - □ | YSC42-1502930<br>- □ - □     | YSC42-2401830<br>- □ - □            | YSC42-3601220<br>- □ - □ |
|--------------------------------|--|---|--------------------------|------------------------------|-------------------------------------|--------------------------|
|                                | Safety Model No.   | YSC42-0904880   | YSC42-1203660            | YSC42-1502930                | YSC42-2401830                       | YSC42-3601220            |
| Output                         | DC Voltage   | 9V  | 12V                      | 15V                          | 24V                                 | 36V                      |
|                                | Rated Current  | 4.88A   | 3.66A                    | 2.93A                        | 1.83A                               | 1.22A                    |
|                                | Rated Power  | 44W   | 44W                      | 44W                          | 44W                                 | 44W                      |
|                                | Ripple & Noise(max.)   | 100mVp-p  | 150mVp-p                 | 150mVp-p                     | 200mVp-p                            | 300mVp-p                 |
|                                | Voltage Tolerance  | ±5%   | ±5%                      | ±5%                          | ±5%                                 | ±5%                      |
|                                | Line Regulation  | ±3%   | ±3%                      | ±3%                          | ±3%                                 | ±3%                      |
|                                | Load Regulation  | ±5%   | ±5%                      | ±5%                          | ±5%                                 | ±5%                      |
|                                | Setup,Rise,Hold up Time  | 1.0s,35ms,80ms/230VAC(at full load)   |                          |                              | 1.0s,35ms,12ms/115VAC(at full load) |                          |
| Input                          | Rated Voltage Range  | 100-240VAC  |                          |                              |                                     |                          |
|                                | Voltage Range  | 85-265VAC   |                          |                              |                                     |                          |
|                                | Frequency Range  | 50/60Hz   |                          |                              |                                     |                          |
|                                | AC Current   | 0.9A/115VAC   | 0.7A/230VAC              |                              |                                     |                          |
|                                | Inrush Current   | Cold Start 60A/200us at 230VAC 50Hz   |                          |                              | Cold Start 40A/200us at 115VAC 50Hz |                          |
|                                | Leakage Current  | <0.25mA/230VAC  |                          |                              |                                     |                          |
|                                | Efficiency   | 88.5%   | 88%                      | 88%                          | 88%                                 | 88.5%                    |
|                                | No Load Power Consumption  | <0.1W   |                          |                              |                                     |                          |
| Protection                     | Over Load  | 105~150%<br>Hiccup mode, recovers automatically after fault condition is removed. |                          |                              |                                     |                          |
|                                | Short Circuit  | Shut down o/p voltage, re-power on to recover.                                    |                          |                              |                                     |                          |
|                                | Over Voltage   | 120~180%  |                          |                              |                                     |                          |
|                                |  | Shut down o/p voltage, re-power on to recover.                                    |                          |                              |                                     |                          |
| Ambient                        | Working TEMP.  | -20 ~ +70 °C (Please refer to "Derating Curve" section)                           |                          |                              |                                     |                          |
|                                | Working Humidity   | 20 ~ 95%RH Non-condensing   |                          |                              |                                     |                          |
|                                | Storage TEMP. Humidity   | -40 ~ +85 °C, 10 ~ 95%RH Non-condensing   |                          |                              |                                     |                          |
|                                | TEMP. Coefficient  | ±0.03%/(0 ~ 40 °C)  |                          |                              |                                     |                          |
|                                | Vibration  | 10 ~ 500Hz, 5G 12min./1cycle, period for 72min. each along X, Y, Z axes           |                          |                              |                                     |                          |
| Safety                         | Safety Standards   | UL1310  |                          |                              |                                     |                          |
|                                | Withstand Voltage  | I/P-O/P: 3KVAC/1min   |                          |                              |                                     |                          |
|                                | Isolation Resistance   | I/P-O/P:100M Ohms / 500VDC / 25 °C / 70% RH                                       |                          |                              |                                     |                          |
| EMC                            | EMC Emission   | Parameter   | Standard                 | Test Level                   |                                     |                          |
|                                |  | Conducted   | EN55032(CISPR32)         | CLASS B                      |                                     |                          |
|                                |  | Radiated  | EN55032(CISPR32)         | CLASS B                      |                                     |                          |
|                                |  | Harmonic Current  | EN61000-3-2              | CLASS B                      |                                     |                          |
|                                |  | Voltage flicker   | EN61000-3-3              | CLASS B                      |                                     |                          |
|                                | EMC Immunity   | Parameter   | Standard                 | Test Level                   |                                     |                          |
|                                |  | ESD   | EN61000-4-2              | Level 3, 8KV air, criteria A |                                     |                          |
|                                |  | Radiated Susceptibility   | EN61000-4-3              | Level 3, criteria A          |                                     |                          |
|                                |  | EFT/Burest  | EN61000-4-4              | Level 3, criteria A          |                                     |                          |
|                                |  | Surge   | EN61000-4-5              | Level 4, 2KV/L-N, criteria A |                                     |                          |
|                                |  | Conducted   | EN61000-4-6              | Level 3, criteria A          |                                     |                          |
| Magnetic Field                 |  | EN61000-4-8   | Level 4, criteria A      |                              |                                     |                          |
| Voltage Dips and interruptions | EN61000-4-11   | > 95% dip 0.5 periods, 30% dip 25 periods,<br>>95% interruptions 250 periods      |                          |                              |                                     |                          |
| Others                         | Packing  | 190g/pcs; 40.5 x 26 x 30 cm; 100pcs/carton  |                          |                              |                                     |                          |
|                                | Dimension (LxWxH)  | 103.4 x 51.2 x 31.5 mm  |                          |                              |                                     |                          |
|                                | Plug and Cable   | See page 3~5; Other type available by customer requested                          |                          |                              |                                     |                          |
|                                | MTBF   | 489.6Khrs min. MIL-HDBK-217F(25 °C)   |                          |                              |                                     |                          |
| Note                           | <ol style="list-style-type: none"> <li>1. Tolerance: includes set up tolerance, line regulation and load regulation.</li> <li>2. Ripple &amp; noise are measured at 20MHz of bandwidth by using a 12" twisted pair-wire terminated with a 0.1uf &amp; 47uf parallel capacitor.</li> <li>3. Line regulation is measured from low line to high line at rated load.</li> <li>4. Load regulation is measured from 0% to 100% rated load.</li> <li>5. All parameters NOT specially mentioned are measured at nominal voltage input, rated load and 25 °C of ambient temperature.</li> <li>6. De-rating may be needed under low input voltages. Please refer to "Static Characteristic" sections for details.</li> <li>7. The power supply is considered as a component that will be operated in combination with final equipment. Since EMC performance will be affected by the complete installation, the final equipment manufacturers must re-qualify EMC Directive on the complete installation again.</li> </ol> |   |                          |                              |                                     |                          |

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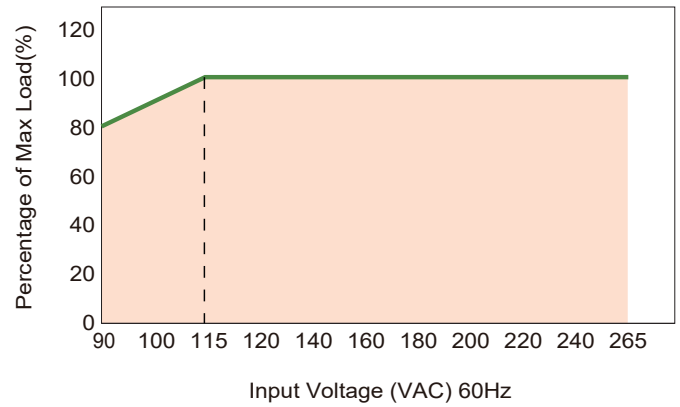
## 44W

### Feature Curves

#### 1. Derating Curve



#### 2. Static Characteristics



### Input Plug Type

Standard Model : by customer

| by customer                         | Pin Assignment   |
|-------------------------------------|--|
| <p>Length of Land L1 by request</p> | <p>YJ's standard length, L: 30 mm, L1: 5 mm<br/>NOTE: The wire color is for reference only, please refer to the actual product</p> |

Custom-made Model : EU/US/AU/UK

| EU | US | AU | UK |
|----|----|----|----|
|    |    |    |    |

### DC Output Plug (Option)

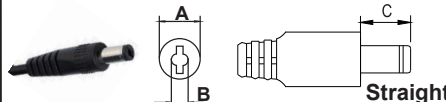
Standard Model : by customer

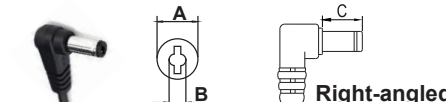
| by customer                         | Pin Assignment   |
|-------------------------------------|--|
| <p>Length of Land L1 by request</p> | <p>YJ's standard length, L: 30 mm, L1: 5 mm<br/>NOTE: The wire color is for reference only, please refer to the actual product</p> |

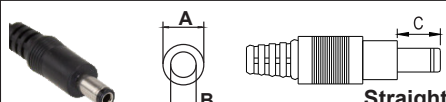
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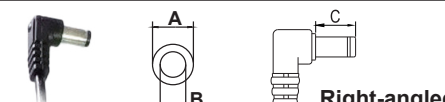
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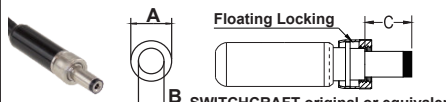
### DC Output Plug (Option)

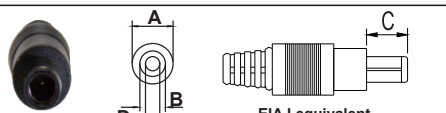
| Tuning Fork Style |  |     |      |
|-------------------|---|-----|------|
|                   | A   | B   | C    |
| Type No.          | OD  | ID  | L    |
|                   | D1I   | 5.5 | 2.1  |
| D1J               | 5.5   | 2.1 | 11.0 |
| D1L               | 5.5   | 2.5 | 9.5  |
| D1M               | 5.5   | 2.5 | 11.0 |

| Tuning Fork Style |  |     |      |
|-------------------|---|-----|------|
|                   | A   | B   | C    |
| Type No.          | OD  | ID  | L    |
|                   | D1IR  | 5.5 | 2.1  |
| D1JR              | 5.5   | 2.1 | 11.0 |
| D1LR              | 5.5   | 2.5 | 9.5  |
| D1MR              | 5.5   | 2.5 | 11.0 |

| Barrel Style |  |     |      |
|--------------|---|-----|------|
|              | A   | B   | C    |
| Type No.     | OD  | ID  | L    |
|              | D2I   | 5.5 | 2.1  |
| D2J          | 5.5   | 2.1 | 11.0 |
| D2L          | 5.5   | 2.5 | 9.5  |
| D2M          | 5.5   | 2.5 | 11.0 |

| Barrel Style |  |     |      |
|--------------|---|-----|------|
|              | A   | B   | C    |
| Type No.     | OD  | ID  | L    |
|              | D2IR  | 5.5 | 2.1  |
| D2JR         | 5.5   | 2.1 | 11.0 |
| D2LR         | 5.5   | 2.5 | 9.5  |
| D2MR         | 5.5   | 2.5 | 11.0 |


| Lock Style |  |      |       |
|------------|---|------|-------|
|            | A   | B    | C     |
| Type No.   | OD  | ID   | L     |
|            | D2S(S761K)  | 5.53 | 2.03  |
| 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 |  |     |      |            |
|------------------|---|-----|------|------------|
|                  | A   | B   | C    | D          |
| Type No.         | OD  | ID  | L    | Center Pin |
|                  | D4A   | 5.5 | 3.4  | 11.0       |
| D4B              | 6.5   | 4.4 | 11.0 | 1.4        |
| D4C              | 7.4   | 5.1 | 11.0 | 0.6        |


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## 44W


### DC Output Plug (Option)


| Tuning Fork Style |  |     |      |
|-------------------|---|-----|------|
|                   | A   | B   | C    |
| Type No.          | OD  | ID  | L    |
| D3A               | 2.35  | 0.7 | 11.0 |
| D3B               | 4.0   | 1.7 | 11.0 |
| D3C               | 4.75  | 1.7 | 11.0 |

| MIN.Din 3Pin with Lock(male) |  |        |
|------------------------------|---|--------|
|                              | Pin Assignment  |        |
| Type No.                     | PIN No.   | Output |
| M6B                          | 1   | +Vo    |
|                              | 2   | -Vo    |
|                              | 3   | +Vo    |

| MIN.Din 4Pin with Lock(male) |  |        |
|------------------------------|---|--------|
|                              | Pin Assignment  |        |
| Type No.                     | PIN No.   | Output |
| M7B                          | 1   | +Vo    |
|                              | 2   | -Vo    |
|                              | 3   | -Vo    |
|                              | 4   | +Vo    |

| MIN.Din 4Pin with Lock(female) |  |        |
|--------------------------------|---|--------|
|                                | Pin Assignment  |        |
| Type No.                       | PIN No.   | Output |
| M7BF                           | 1   | +Vo    |
|                                | 2   | -Vo    |
|                                | 3   | -Vo    |
|                                | 4   | +Vo    |

| Barrel Style |  |        |
|--------------|---|--------|
|              | Pin Assignment  |        |
| Type No.     | PIN No.   | Output |
| M1B          | 1   | -Vo    |
|              | 2   | -Vo    |
|              | 3   | +Vo    |
|              | 4   | -Vo    |
|              | 5   | +Vo    |

| Type-C   |  |     |      |
|----------|---|-----|------|
|          | A   | B   | C    |
| Type No. | OD  | ID  | L    |
| C1       | 2.4   | 1.3 | 8.25 |