

# YS35V-E SERIES

## 36W



### Features

- Energy efficiency level VI
- Class II Power Supply
- 3 Years Warranty
- Universal AC input/Full range
- No load power consumption < 0.1W
- Protections: Short Circuit /Over Load / Over Voltage
- -20~+50℃ wide range working temperature

### Applications

- Digital Equipment
- Industrial Equipments
- Consumer Electronic Devices
- Telecommunication Devices



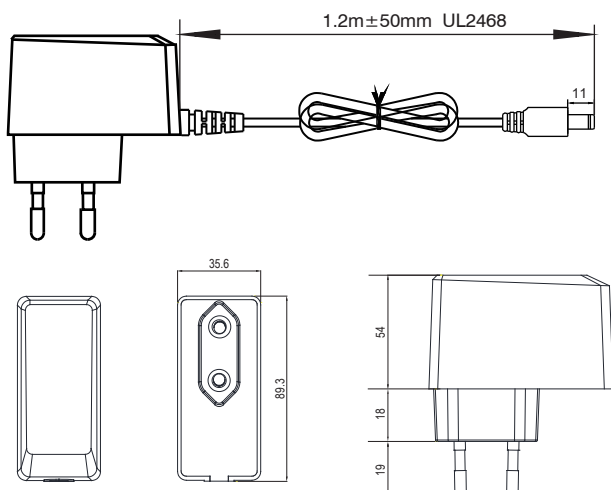
### Model Description

YS35V - XXXYYYY E-D1J

- DC Plug Type { D1J: standard model,  $\phi 2.1 \times \phi 5.5 \times 11\text{mm}$ , C+, tuning fork type  
Other options available by customer requested (see Page3-5)
- EU Plug
- Output Current
- Output Voltage
- Series Name

### Dimensions and installation

(Unit: mm , tolerance:  $\pm 1\text{mm}$ )



| Standard Cable | 1.2m UL2468 (Option: UL2464, UL1185) |
|----------------|--------------------------------------|
| 5 ~ 9V         | 18AWG                                |
| 12V            | 20AWG                                |
| 24 ~ 36V       | 22AWG                                |
| 48V            | 24AWG                                |

Outside  Inside 

## Specification

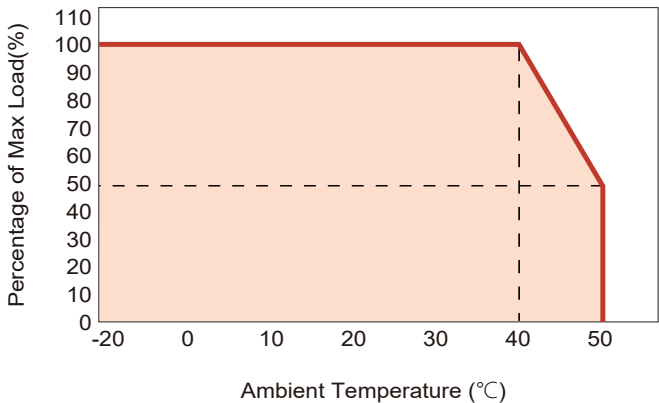
| Model      | Order P/N                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | YS35V-0505000E-D1J                                                                | YS35V-0904000E-D1J | YS35V-1203000E-D1J | YS35V-2401500E-D1J                                                        | YS35V-3601000E-D1J | YS35V-4800750E-D1J |
|------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|--------------------|--------------------|---------------------------------------------------------------------------|--------------------|--------------------|
|            | Safety Model No.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | YS35V-0505000                                                                     | YS35V-0904000      | YS35V-1203000      | YS35V-2401500                                                             | YS35V-3601000      | YS35V-4800750      |
| Output     | DC Voltage                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 5V                                                                                | 9V                 | 12V                | 24V                                                                       | 36V                | 48V                |
|            | Rated Current                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | 5A                                                                                | 4A                 | 3A                 | 1.5A                                                                      | 1A                 | 0.75A              |
|            | Rated Power                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 25W                                                                               | 36W                | 36W                | 36W                                                                       | 36W                | 36W                |
|            | Ripple & Noise(max.)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 75mVp-p                                                                           | 90mVp-p            | 120mVp-p           | 200mVp-p                                                                  | 300mVp-p           | 400mVp-p           |
|            | Voltage Tolerance                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | ±5%                                                                               | ±5%                | ±5%                | ±5%                                                                       | ±5%                | ±5%                |
|            | Line Regulation                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | ±3%                                                                               | ±3%                | ±3%                | ±3%                                                                       | ±3%                | ±3%                |
|            | Load Regulation                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | ±5%                                                                               | ±5%                | ±5%                | ±5%                                                                       | ±5%                | ±5%                |
|            | Setup,Rise,Hold up Time                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 1.0s,30ms,80ms/230VAC(at full load)                                               |                    |                    | 2.0s,30ms,15ms/115VAC(at full load)                                       |                    |                    |
| Input      | Rated Voltage Range                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 100-240VAC                                                                        |                    |                    |                                                                           |                    |                    |
|            | Voltage Range                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | 90-264VAC                                                                         |                    |                    |                                                                           |                    |                    |
|            | Frequency Range                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 50/60Hz                                                                           |                    |                    |                                                                           |                    |                    |
|            | AC Current                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 0.2A/115VAC                                                                       |                    | 0.21A/230VAC       |                                                                           |                    |                    |
|            | Inrush Current                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | Cold Start 30A/200us at 230VAC 50Hz                                               |                    |                    | Cold Start 15A/200us at 115VAC 50Hz                                       |                    |                    |
|            | Leakage Current                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | <0.25mA/230VAC                                                                    |                    |                    |                                                                           |                    |                    |
|            | Efficiency                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 86.4%                                                                             | 87.5%              | 87.5%              | 88%                                                                       | 88.5%              | 89%                |
|            | No Load Power Consumption                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | <0.1W                                                                             |                    |                    |                                                                           |                    |                    |
| Protection | Over Load                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 105~150%<br>Hiccup mode, recovers automatically after fault condition is removed. |                    |                    |                                                                           |                    |                    |
|            | Short Circuit                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | Recovers automatically after fault condition is removed.                          |                    |                    |                                                                           |                    |                    |
|            | Over Voltage                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 120~180%<br>Shut down o/p voltage, re-power on to recover                         |                    |                    |                                                                           |                    |                    |
|            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                                                   |                    |                    |                                                                           |                    |                    |
| Ambient    | Working TEMP.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | -20 ~ +50 ℃ (Please refer to “Derating Curve”section)                             |                    |                    |                                                                           |                    |                    |
|            | Working Humidity                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 20 ~ 95%RH Non-condensing                                                         |                    |                    |                                                                           |                    |                    |
|            | Storage TEMP. Humidity                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | -40 ~ +85 ℃ , 10 ~ 95%RH Non-condensing                                           |                    |                    |                                                                           |                    |                    |
|            | TEMP. Coefficient                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | ±0.03%/(0 ~ 40 ℃ )                                                                |                    |                    |                                                                           |                    |                    |
|            | Vibration                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 10 ~ 500Hz, 5G 12min./1cycle, period for 72min. each along X, Y, Z axes           |                    |                    |                                                                           |                    |                    |
| Safety     | Safety Standards                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | EN62368-1                                                                         |                    |                    |                                                                           |                    |                    |
|            | Withstand Voltage                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | I/P-O/P: 3KVAC/1min                                                               |                    |                    |                                                                           |                    |                    |
|            | Isolation Resistance                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | I/P-O/P:100M Ohms / 500VDC / 25 ℃ / 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, >95% interruptions 250 periods |                    |                    |
| Others     | Packing                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 180g/pcs; 55 x 26 x 24.5 cm; 50pcs/carton                                         |                    |                    |                                                                           |                    |                    |
|            | Dimension (LxWxH)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 89.3 x 35.6 x 54 mm                                                               |                    |                    |                                                                           |                    |                    |
|            | Plug and Cable                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | See page 3~5; Other type available by customer requested                          |                    |                    |                                                                           |                    |                    |
|            | MTBF                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 154.6Khrs min. MIL-HDBK-217F(25 ℃ )                                               |                    |                    |                                                                           |                    |                    |
| Note       | 1. Tolerance: includes set up tolerance, line regulation and load regulation.<br>2. Ripple & noise are measured at 20MHz of bandwidth by using a 12" twisted pair-wire terminated with a 0.1uf & 47uf parallel capacitor.<br>3.Line regulation is measured from low line to high line at rated load.<br>4.Load regulation is measured from 0% to 100% rated load.<br>5. All parameters NOT specially mentioned are measured at nominal voltage input, rated load and 25 ℃ of ambient temperature.<br>6. De-rating may be needed under low input voltages. Please refer to “Static Characteristic” sections for details.<br>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. |                                                                                   |                    |                    |                                                                           |                    |                    |

File last modification time: 2025-2-25

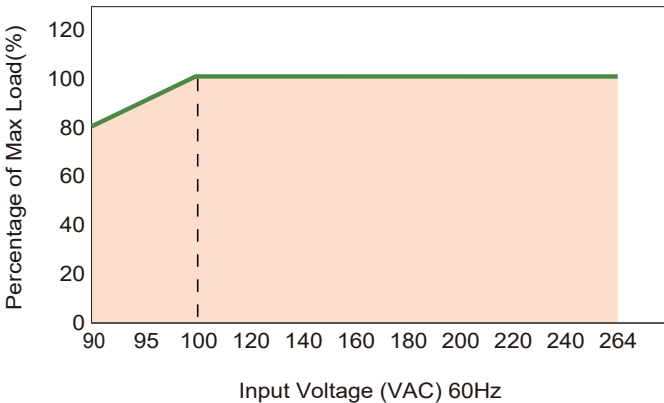
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Feature Curves

1. Derating Curve

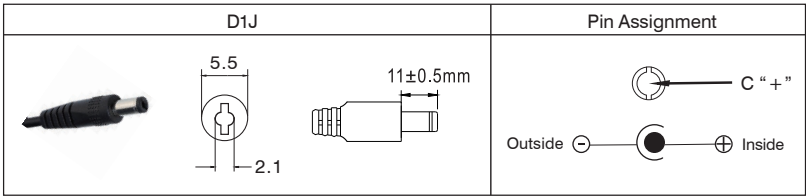


2. Static Characteristics



DC Output Plug (Option)

Standard Model : D1J



Optional DC plug:  
(Unit: mm , tolerance: ±0.5mm)

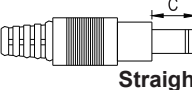
| Tuning Fork Style |     |     | Straight |
|-------------------|-----|-----|----------|
| Type No.          | A   | B   | C        |
|                   | OD  | ID  | L        |
| D1I               | 5.5 | 2.1 | 9.5      |
| D1L               | 5.5 | 2.5 | 9.5      |
| D1M               | 5.5 | 2.5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

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

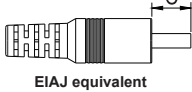
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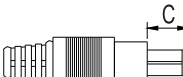
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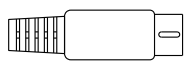
### DC Output Plug (Option)

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

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

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

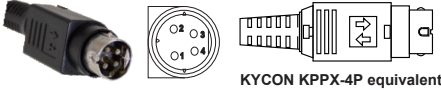
|                  |                                                                                       |                                                                                       |                                                                                       |            |
|------------------|---------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|------------|
| Center Pin Style |  |  |  |            |
|                  |                                                                                       |                                                                                       | EIAJ equivalent                                                                       |            |
| Type No.         | A                                                                                     | B                                                                                     | C                                                                                     | D          |
|                  | OD                                                                                    | ID                                                                                    | L                                                                                     | Center Pin |
| D4A              | 5.5                                                                                   | 3.4                                                                                   | 11.0                                                                                  | 1.0        |
| D4B              | 6.5                                                                                   | 4.4                                                                                   | 11.0                                                                                  | 1.4        |
| D4C              | 7.4                                                                                   | 5.1                                                                                   | 11.0                                                                                  | 0.6        |

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

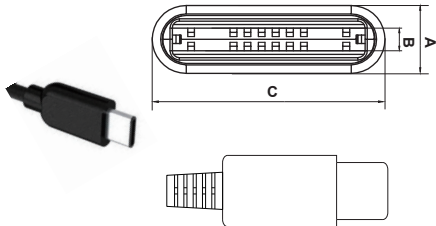
| MIN.Din 3Pin with Lock(male) |  |  |  |
|------------------------------|---------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|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

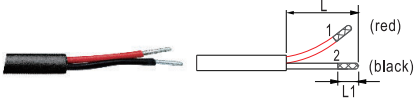
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DC Output Plug (Option)

| MIN.Din<br>4Pin with<br>Lock(male) |  |        |
|------------------------------------|-----------------------------------------------------------------------------------|--------|
|                                    | KYCON KPPX-4P equivalent                                                          |        |
| Type No.                           | Pin Assignment                                                                    |        |
|                                    | PIN No.                                                                           | Output |
| M7B                                | 1                                                                                 | +Vo    |
|                                    | 2                                                                                 | -Vo    |
|                                    | 3                                                                                 | -Vo    |
|                                    | 4                                                                                 | +Vo    |

| MIN.Din<br>4Pin with<br>Lock(female) |  |        |
|--------------------------------------|-------------------------------------------------------------------------------------|--------|
|                                      | KYCON KPJX-CM-4S equivalent                                                         |        |
| Type No.                             | Pin Assignment                                                                      |        |
|                                      | PIN No.                                                                             | Output |
| M7BF                                 | 1                                                                                   | +Vo    |
|                                      | 2                                                                                   | -Vo    |
|                                      | 3                                                                                   | -Vo    |
|                                      | 4                                                                                   | +Vo    |

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

| Stripped<br>and<br>tinned<br>leads |                                                                          |        |
|------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------|--------|
|                                    | Length of Land L1 by request<br>YJ's standard length, L: 30 mm, L1: 5 mm<br>NOTE: The wire color is for reference only,<br>please refer to the actual product |        |
| Type No.                           | Pin Assignment                                                                                                                                                |        |
|                                    | PIN No.                                                                                                                                                       | Output |
| by<br>customer                     | 1                                                                                                                                                             | +Vo    |
|                                    | 2                                                                                                                                                             | -Vo    |