

YS10USB SERIES



Features

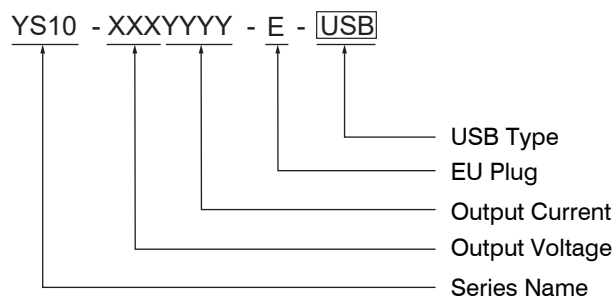
- Energy efficiency level VI
- Class II Power Supply
- 3 Years Warranty
- Universal AC input/Full range
- No load power consumption < 0.1W
- Protections: Short Circuit /Over Load / Over Voltage
- -20~+60℃wide range working temperature

Applications

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

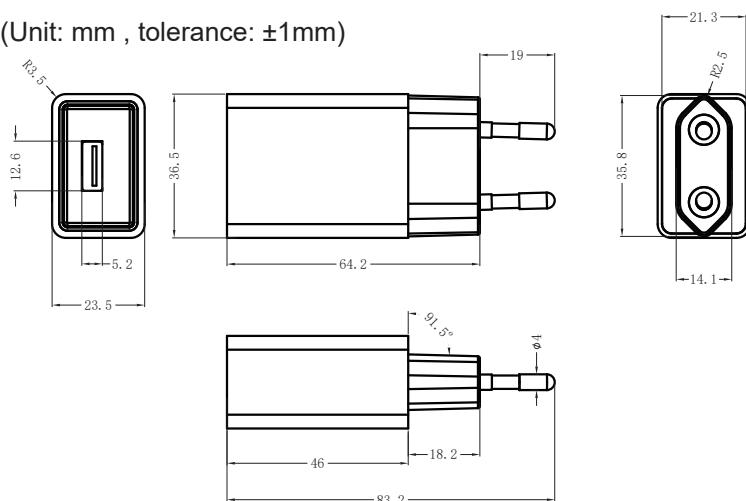


Model Description



Dimensions and installation

(Unit: mm , tolerance: ±1mm)



File last modification time: 2025-2-25

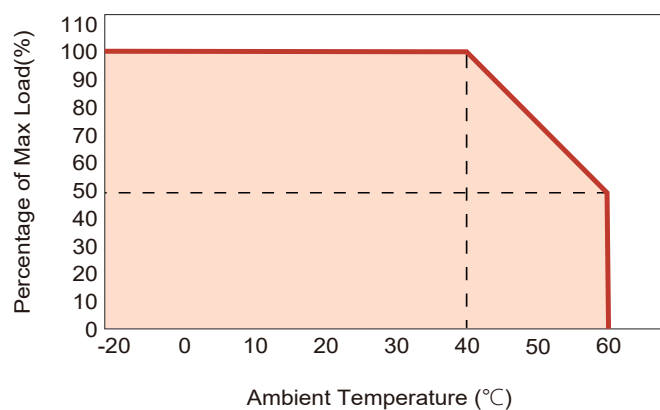
Specification

| | | | | |
|--|--|--|------------------|--|
| Model | Order P/N | YS10-0501200E-USB | | YS10-0502100E-USB |
| | Safety Model No. | YS10-0501200USB | | YS10-0502100USB |
| Output | DC Voltage | 5V | | 5V |
| | Rated Current | 1.2A | | 2.1A |
| | Rated Power | 6W | | 10.5W |
| | Ripple & Noise(max.) | 75mVp-p | | 75mVp-p |
| | Voltage Tolerance | ± 5% | | ± 5% |
| | Line Regulation | ± 3% | | ± 3% |
| | Load Regulation | ± 5% | | ± 5% |
| | Setup,Rise,Hold up Time | 1.0s,30ms,30ms/230VAC(at full load) | | 2.0s,30ms,12ms/115VAC(at full load) |
| | Input | Rated Voltage Range | 100-240VAC | |
| Voltage Range | | 90-264VAC | | |
| Frequency Range | | 50/60Hz | | |
| AC Current | | 0.3A/115VAC 0.15A/230VAC | | |
| Inrush Current | | Cold Start 65A/200us at 230VAC 50Hz Cold Start 30A/200us at 115VAC 50Hz | | |
| Leakage Current | | <0.25mA/230VAC | | |
| Efficiency | | 75% | 80% | |
| No Load Power Consumption | | <0.1W | | |
| Protection | Over Load | 105~150% | | |
| | | 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 ~ +60 ℃ (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 | IEC/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 | 83g/pcs; 45 x 28.5 x 32 cm; 100pcs/carton | | |
| | Dimension (LxWxH) | 64.2 x 36.5 x 23.5 mm | | |
| | Plug and Cable | See page 3~5; Other type available by customer requested | | |
| | MTBF | 315.8Khrs min. MIL-HDBK-217F(25 ℃) | | |
| Note | 1. Tolerance: includes set up tolerance, line regulation and load regulation. 2. Ripple & noise are measured at 20MHz of bandwidth by using a 12" twisted pair-wire terminated with a 0.1uf & 47uf parallel capacitor. 3.Line regulation is measured from low line to high line at rated load. 4.Load regulation is measured from 0% to 100% rated load. 5. All parameters NOT specially mentioned are measured at nominal voltage input, rated load and 25 ℃ of ambient temperature. 6. De-rating may be needed under low input voltages. Please refer to “Static Characteristic” sections for details. 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. | | | |

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Feature Curves

1. Derating Curve



2. Static Characteristics

