

YS10USB SERIES



Features

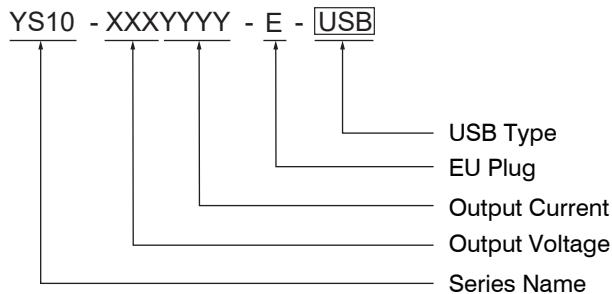
- Energy efficiency level VI
- Class II Power Supply
- 3 Years Warranty
- Universal AC input/Full range
- No load power consumption < 0.1W
- Protections: Short Circuit /Over Load / Over Voltage
- -20~+60°C wide range working temperature

Applications

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

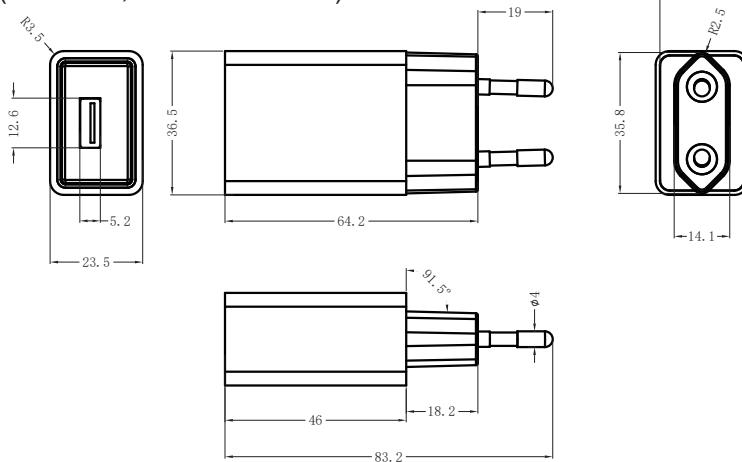


Model Description



Dimensions and installation

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



File last modification time: 2025-2-25

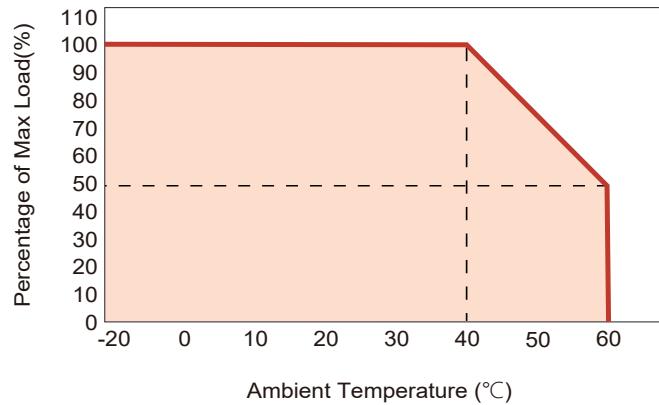
Specification

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%			
Protection	No Load Power Consumption	<0.1W				
	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°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	IEC/EN62368-1				
	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/Burst	EN61000-4-4	Level 3, criteria A		
		Surge	EN61000-4-5	Level 4, 2KV/L-N, criteria A		
Others	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			
	Packing	83g/pcs; 45 x 28.5 x 32 cm; 100pcs/carton				
Note	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°C)				
	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°C 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.					

YS10USB SERIES

Feature Curves

1. Derating Curve



2. Static Characteristics

