

YS10USB SERIES

10.5W



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

- Blood glucose meter
- Blood pressure meter
- Nebulizer/Inhaler
- Portable medical device



RoHS



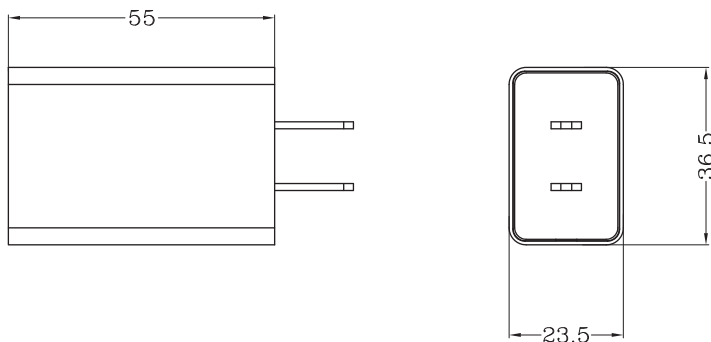
Model Description

YS10 - XXXYYYY - M - USB

USB Type
Medical Type
Output Current
Output Voltage
Series Name

Dimensions and installation

(Unit: mm , tolerance: ±1mm)



Specification

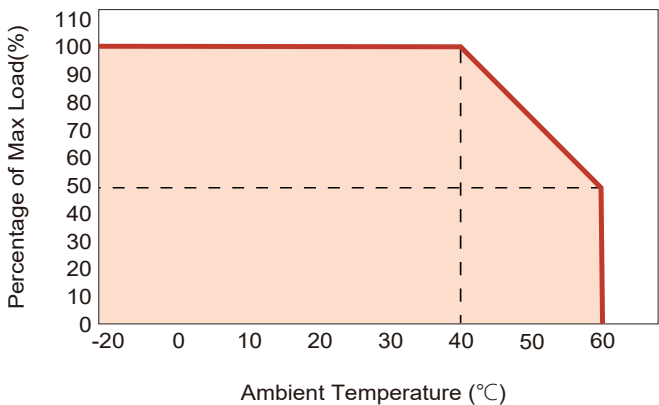
Model	Order P/N	YS10-0501000-M		YS10-0502100-M
	Safety Model No.	YS10-0501000		YS10-0502100
Output	DC Voltage	5V		5V
	Rated Current	1A		2.1A
	Rated Power	5W		10.5W
	Ripple & Noise(max.)	75mVp-p		75mVp-p
	Voltage Tolerance	±5%		±5%
	Line Regulation	±3%		±3%
	Load Regulation	±5%		±5%
	Setup,Rise,Hold up Time	1.0s,40ms,60ms/230VAC(at full load)		2.0s,40ms,12ms/115VAC(at full load)
Input	Rated Voltage Range	100-240VAC		
	Voltage Range	90-264VAC		
	Frequency Range	50/60Hz		
	AC Current	0.6A/100VAC 0.4A/240VAC		
	Inrush Current	Cold Start 70A/200us at 240VAC 50Hz Cold Start 35A/200us at 100VAC 50Hz		
	Leakage Current	<0.1mA/240VAC		
	Efficiency	78%		79.5%
	No Load Power Consumption	<0.1W		
Protection	Over Load	105~150% Hiccup mode, recovers automatically after fault condition is removed.		
	Short Circuit	Hiccup mode, recovers automatically after fault condition is removed.		
Ambient	Working TEMP.	-20 ~ +60 ℃ (Please refer to “Derating Curve”section)		
	Working Humidity	25 ~ 75%RH Non-condensing		
	Storage TEMP. Humidity	-40 ~ +80 ℃, 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	ANSI/AAMI ES60601-1		
	Withstand Voltage	I/P-O/P: 4KVAC/1min		
	Isolation Resistance	I/P-O/P:100M Ohms / 500VDC / 25 ℃ / 70% RH		
EMC	EMC Emission	Parameter	Standard	Test Level
		Conducted	EN55032(CISPR32), FCC Part 15 Subpart B	CLASS B
		Radiated	EN55032(CISPR32), FCC Part 15 Subpart B	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	90g/pcs; 44 x 33 x 43.5 cm; 100pcs/carton		
	Dimension (LxWxH)	36.5 x 23.5 x 55 mm		
	Plug and Cable	See page 3~5; Other type available by customer requested		
	MTBF	150.5Khrs 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

