

# YSV24-USB SERIES

## 18W



### 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

- Home Appliances
- Access Control Systems
- Consumer Electronic Devices
- Telecommunication Devices

CE RoHS VI (pending)

### Model Description

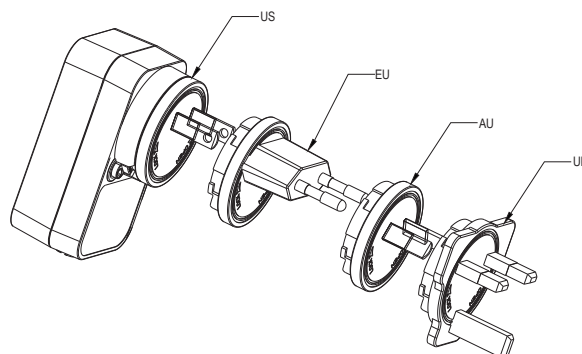
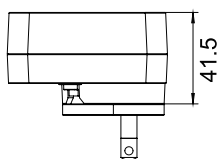
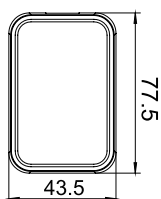
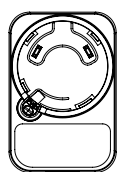
YSV24 - XXXYYYY -  - USB

USB Type  
 AC Plug Type  
 Output Current  
 Output Voltage  
 Series Name

Blank: All universal version with interchangeable plugs  
 Separate plug available by customer requested (see page 3)

### Dimensions and installation

(Unit: mm , tolerance: ±1mm)



## Specification

Model	Order P/N	YSV24-0503000-USB		YSV24-0504000-USB
	Safety Model No.	YSV24-0503000		YSV24-0504000
Output	DC Voltage	5V		5V
	Rated Current	3A		4A
	Rated Power	15W		20W
	Ripple & Noise(max.)	75mVp-p		75mVp-p
	Voltage Tolerance	±5%		±5%
	Line Regulation	±3%		±3%
	Load Regulation	±5%		±5%
	Setup,Rise,Hold up Time	0.9s,40ms,30ms/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	0.8A/100VAC                      0.5A/240VAC		
	Inrush Current	Cold Start 80A/200us at 240VAC 50Hz                      Cold Start 50A/200us at 100VAC 50Hz		
	Leakage Current	<0.5mA/240VAC		
	Efficiency	82%		84%
	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.		
	Over Voltage	120~180%		
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	IEC 62368-1, EN 62368-1, AS/NZS 62368-1, UL 62368-1		
	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), 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	170g/pcs; 49.5 x 28.5 x 20 cm; 50pcs/carton		
	Dimension (LxWxH)	77.5 x 43.5 x 41.5 mm		
	Plug and Cable	See page 3~5; Other type available by customer requested		
	MTBF	50.5Khrs 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.			

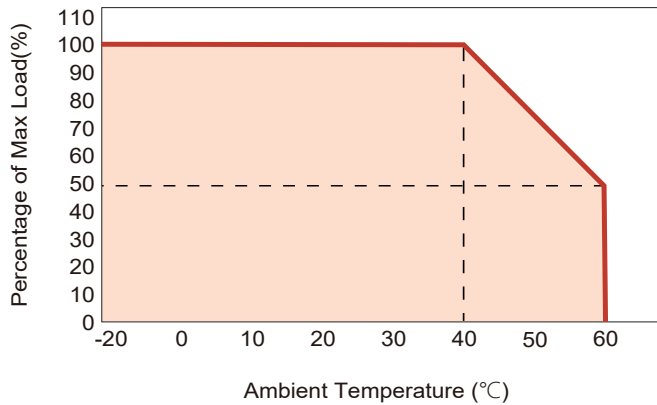
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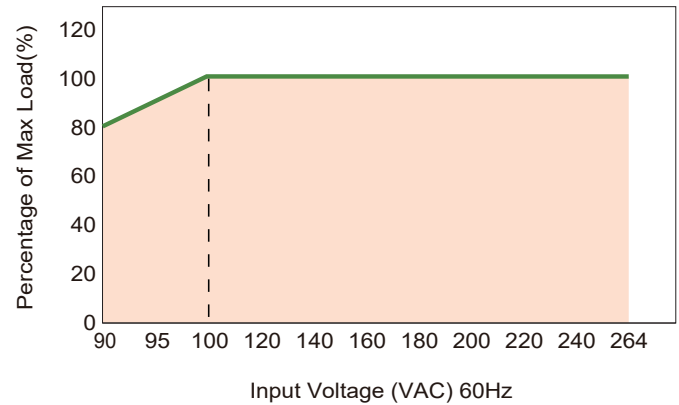
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### Feature Curves

1. Derating Curve

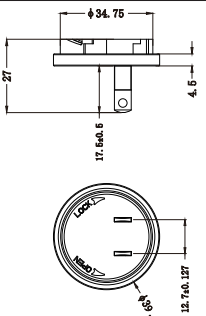
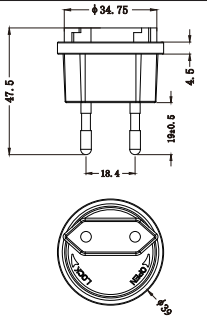
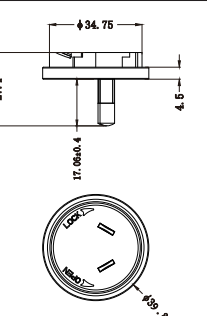
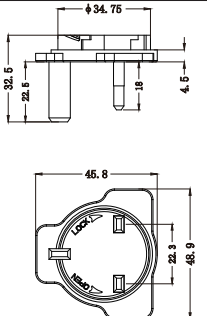
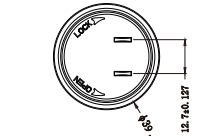

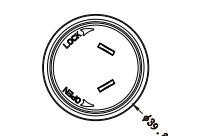
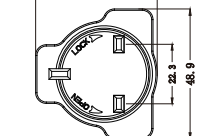


2. Static Characteristics



### Input Plug Type (Option)

Standard models: All

AC Plug	Interchangeable Type(Unfoldable; AC Pin fixed)			
	US	EU	AU	UK
Dimension				
				

### DC Output Plug (Option)

Standard Model : USB