

YSV40 SERIES

40W



Features

- Energy efficiency level VI
- Class II Power Supply
- 3 Years Warranty
- Universal AC input/Full range
- No load power consumption < 0.21W
- Protections: Short Circuit /Over Load / Over Voltage
- -20~+60℃ wide range working temperature

Applications

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



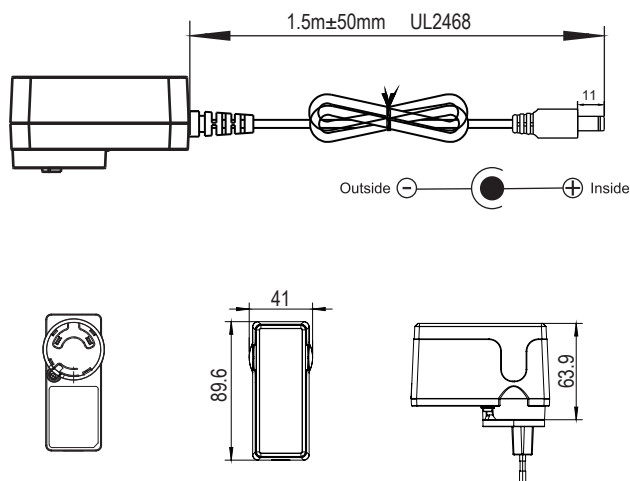
Model Description

YSV40 - XXXYYYY - [] - 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 Page 3-5)
- AC Plug Type { Blank: All universal version with interchangeable plugs
Separate plug available by customer requested (see page 3)
- Output Current
- Output Voltage
- Series Name

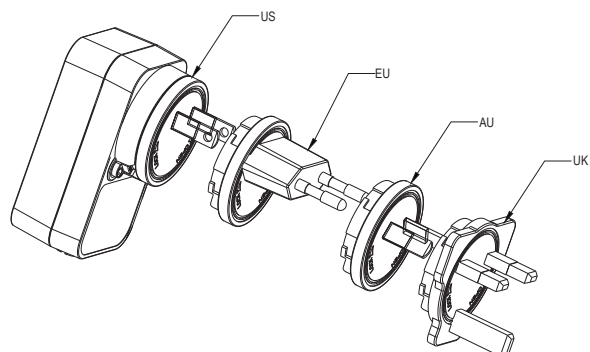
Dimensions and installation

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



Standard Cable	1.2m UL2468 (Option: UL2464, UL1185)
5 ~ 12V	18AWG
15V	20AWG
24V	22AWG
48V	24AWG

Outside $\ominus$ $\oplus$ Inside



File last modification time: 2025-2-25

Specification

Model	Order P/N	YSV40-0505000-D1J	YSV40-0904440-D1J	YSV40-1203330-D1J	YSV40-1502500-D1J	YSV40-2401660-D1J	YSV40-4800830-D1J
	Safety Model No.	YSV40-0505000	YSV40-0904440	YSV40-1203330	YSV40-1502500	YSV40-2401660	YSV40-4800830
Output	DC Voltage	5V	9V	12V	15V	24V	48V
	Rated Current	5A	4.44A	3.33A	2.5A	1.66A	0.83A
	Rated Power	25W	40W	40W	40W	40W	40W
	Ripple & Noise(max.)	100mVp-p	100mVp-p	120mVp-p	240mVp-p	240mVp-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,40ms,80ms/230VAC(at full load)			2.0s,40ms,15ms/115VAC(at full load)		
Input	Rated Voltage Range	100-240VAC					
	Voltage Range	90-264VAC					
	Frequency Range	50/60Hz					
	AC Current	1.5A/100VAC		1.0A/240VAC			
	Inrush Current	Cold Start 90A/200us at 240VAC 50Hz			Cold Start 50A/200us at 100VAC 50Hz		
	Leakage Current	<0.5mA/240VAC					
	Efficiency	84.5%	88%	88%	88.5%	89%	89.5%
	No Load Power Consumption	<0.21W					
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	200g/pcs; 34.5 x 32.5 x 39.5 cm; 50pcs/carton					
	Dimension (LxWxH)	89.6 x 41 x 63.9 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.						

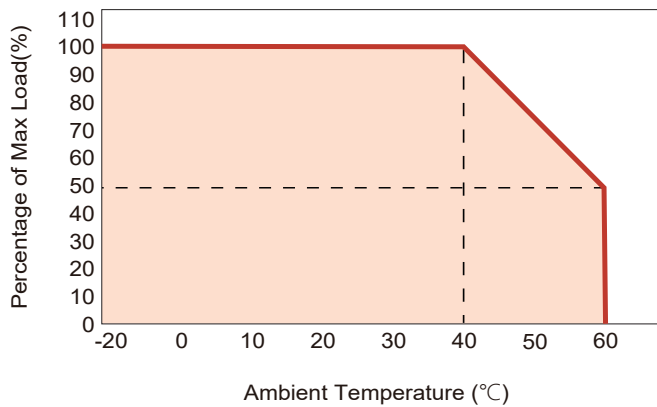
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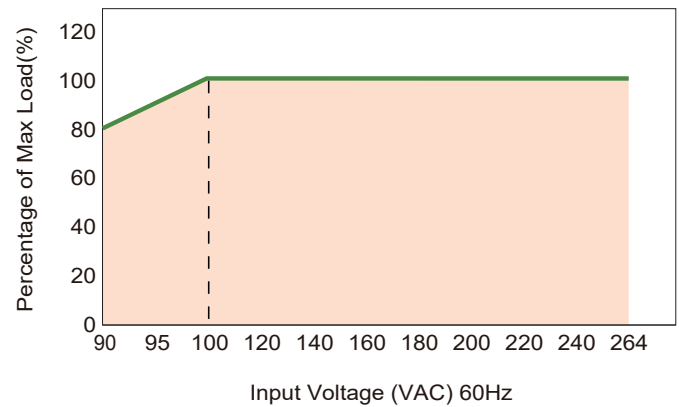
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Feature Curves

1. Derating Curve

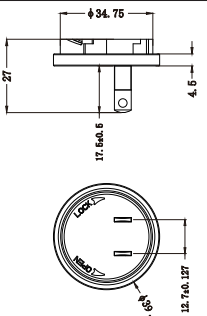
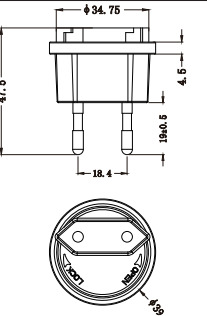
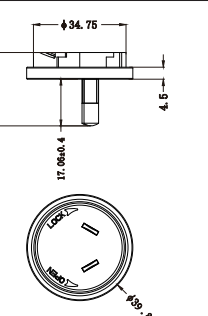
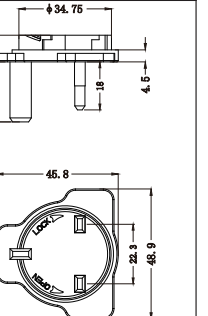
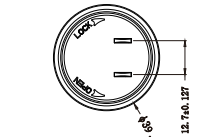
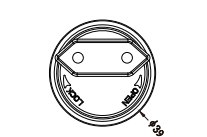
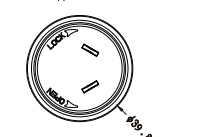
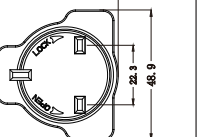


2. Static Characteristics



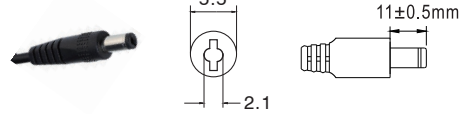
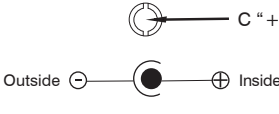
Input Plug Type (Option)

Standard models: All

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

DC Output Plug (Option)

Standard Model : D1J

D1J	Pin Assignment
	

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DC Output Plug (Option)

(Unit: mm , tolerance: $\pm 0.5\text{mm}$)

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	

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	

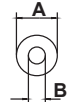
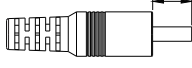
Lock Style				Floating Locking SWITCHCRAFT original or equivalent
Type No.	A	B	C	
	OD	ID	L	
D2S(S761K)	5.53	2.03	12.06	
D2K(761K)	5.53	2.54	12.06	
D2C(S760K)	5.53	2.03	9.52	
D2D(760K)	5.53	2.54	9.52	

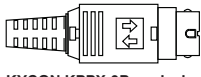
Center Pin Style				EIAJ equivalent
Type No.	A	B	C	D
	OD	ID	L	Center Pin
D4A	5.5	3.4	11.0	1.0
D4B	6.5	4.4	11.0	1.4
D4C	7.4	5.1	11.0	0.6

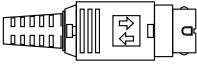
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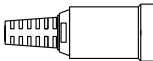
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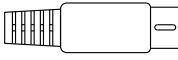
DC Output Plug (Option)

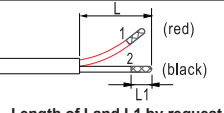
Tuning Fork Style			
	EIAJ equivalent		
Type No.	A	B	C
	OD	ID	L
D3A	2.35	0.7	11.0
D3B	4.0	1.7	11.0
D3C	4.75	1.7	11.0

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

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

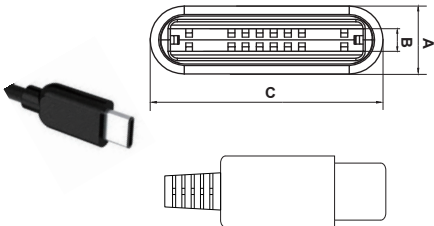
MIN.Din 4Pin with Lock(female)				KYCON KPJX-CM-4S equivalent
Type No.	Pin Assignment			
	PIN No.		Output	
M7BF	1		+Vo	
	2		-Vo	
	3		-Vo	
	4		+Vo	

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

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

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DC Output Plug (Option)

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