YINGJIAO

YSC50 SERIES
60W

CB SCHEME RoHS VI

Features

- IP67
- 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～+70℃wide range working temperature

Applications

- Office Facilities
- Industrial Equipments
- Consumer Electronic Devices
- Telecommunication Devices
- Security Alarm System

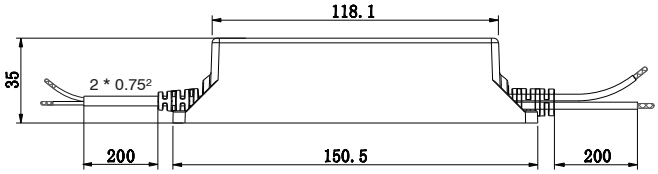
Model Description

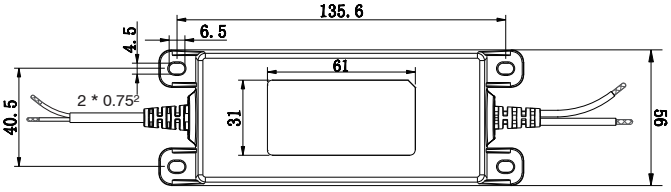
YSC50 - XXXYYYY - □ - □

- AC Plug Type : *Other options available by customer requested (see Page3)*
- DC Plug Type : *Other options available by customer requested (see Page3-5)*
- Output Current
- Output Voltage
- Series Name

Dimensions and installation

Standard Model





Standard AC Cable	200mm PVC 2*0.5mm²
Standard DC Cable	200mm UL2464 (Option: UL2468, UL1185)
9 ~ 15V	18AWG
24V	20AWG
36V	22AWG

File last modification time: 2025-2-25

Specification

Model	**Order P/N**	**YSC50-0905000** - □ - □	**YSC50-1205000** - □ - □	**YSC50-1504000** - □ - □	**YSC50-2402500** - □ - □	**YSC50-3601660** - □ - □
	Safety Model No.	**YSC50-0905000**	**YSC50-1205000**	**YSC50-1504000**	**YSC50-2402500**	**YSC50-3601660**
Output	**DC Voltage**	9V	12V	15V	24V	36V
	Rated Current	5A	5A	4A	2.5A	1.66A
	Rated Power	45W	60W	60W	60W	60W
	Ripple & Noise(max.)	100mVp-p	150mVp-p	150mVp-p	200mVp-p	300mVp-p
	Voltage Tolerance	±5%	±5%	±5%	±5%	±5%
	Line Regulation	±3%	±3%	±3%	±3%	±3%
	Load Regulation	±5%	±5%	±5%	±5%	±5%
	Setup,Rise,Hold up Time	3.0s,30ms,120ms/230VAC(at full load)		3.0s,30ms,25ms/115VAC(at full load)		
Input	**Rated Voltage Range**	100-240VAC				
	Voltage Range	85-264VAC				
	Frequency Range	50/60Hz				
	AC Current	1.5A/115VAC	0.8A/230VAC			
	Inrush Current	Cold Start 60A/200us at 230VAC 50Hz		Cold Start 40A/200us at 115VAC 50Hz		
	Leakage Current	<0.25mA/230VAC				
	Efficiency	89%	89.5%	89%	90%	91%
	No Load Power Consumption	<0.21W				
Protection	**Over Load**	110~180%				
		Hiccup mode, recovers automatically after fault condition is removed.				
	Short Circuit	Shut down o/p voltage, re-power on to recover.				
	Over Voltage	105~150%				
		Shut down o/p voltage, re-power on to recover.				
Ambient	**Working TEMP.**	-30 ~ +70℃(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 61558-1				
	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**	310g/pcs; 47 x 25.5 x 23 cm; 10pcs/carton				
	Dimension (LxWxH)	150.5 x 56 x 35 mm				
	Plug and Cable	See page 3~5; Other type available by customer requested				
	MTBF	354.9Khrs 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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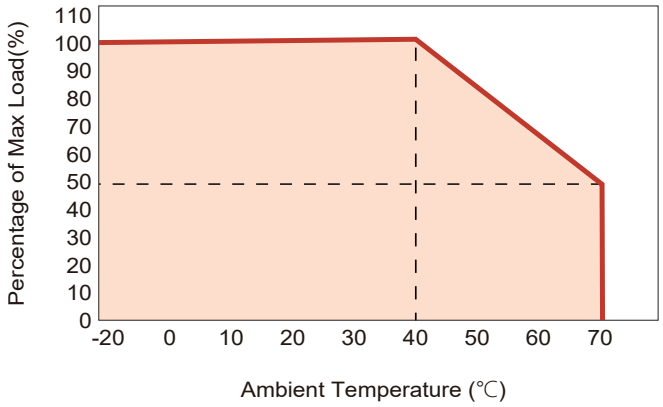
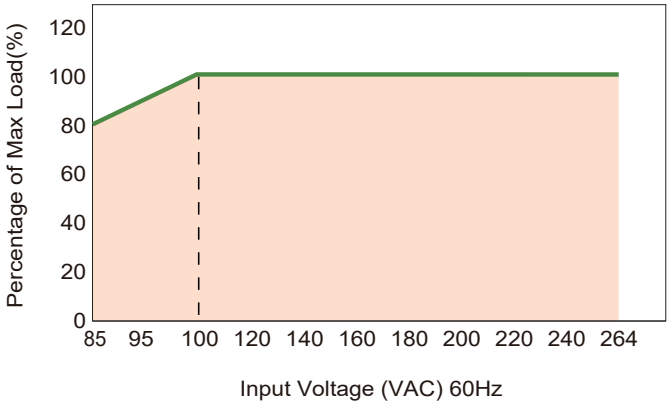
Feature Curves

1. Derating Curve



2. Static Characteristics

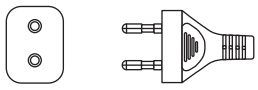
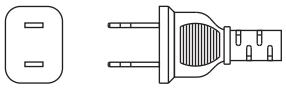
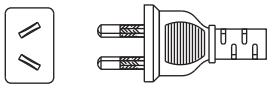
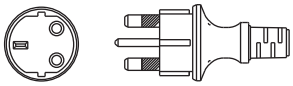


Input Plug Type

Standard Model : by customer

by customer	Pin Assignment
 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

Custom-made Model ： EU/US/AU/UK

EU	US	AU	UK
			

DC Output Plug (Option)

Standard Model : **by customer**

by customer	Pin Assignment
 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

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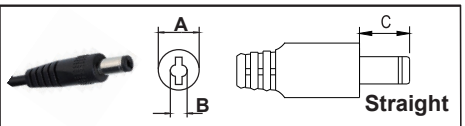
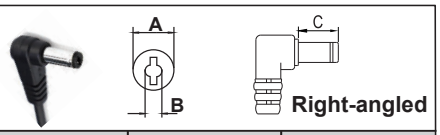
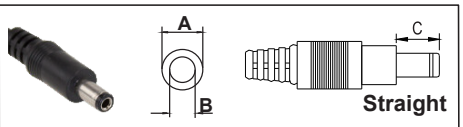
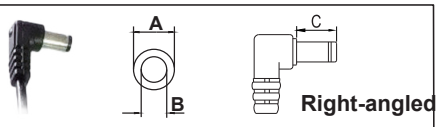
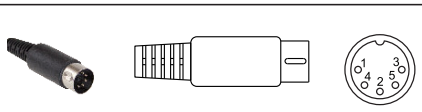
DC Output Plug (Option)

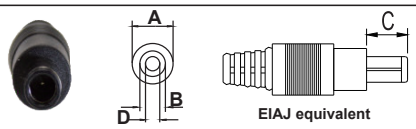
Tuning Fork Style			
Type No.	A	B	C
	OD	ID	L
D1I	5.5	2.1	9.5
D1J	5.5	2.1	11.0
D1L	5.5	2.5	9.5
D1M	5.5	2.5	11.0

Tuning Fork Style			
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			
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			
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

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

Center Pin Style				
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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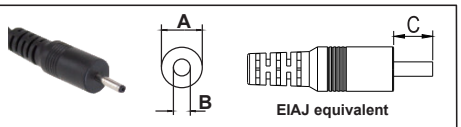
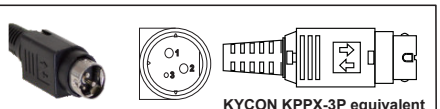
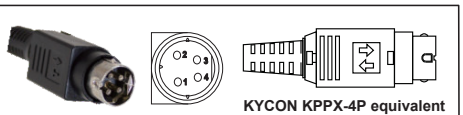
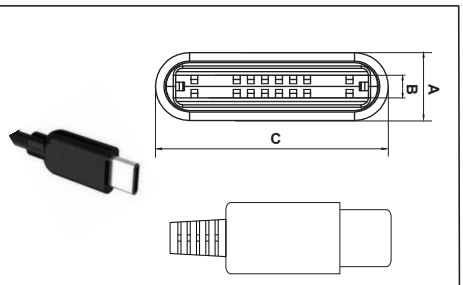
DC Output Plug (Option)

Tuning Fork Style			
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)		
Type No.	Pin Assignment	
	PIN No.	Output
M6B	1	+Vo
	2	-Vo
	3	+Vo

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

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

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

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