

YS24-Class I SERIES

24W



Features

- Energy efficiency level VI
- Class I Power Supply
- 3 Years Warranty
- Universal AC input/Full range
- No load power consumption < 0.1W
- Protections: Short Circuit /Over Load / Over Voltage
- -30~+70°C wide range working temperature

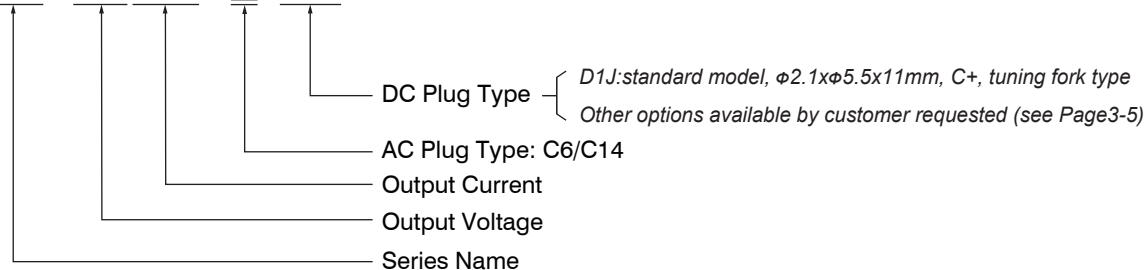
Applications

- Office Facilities
- Industrial Equipments
- Consumer Electronic Devices
- Telecommunication Devices



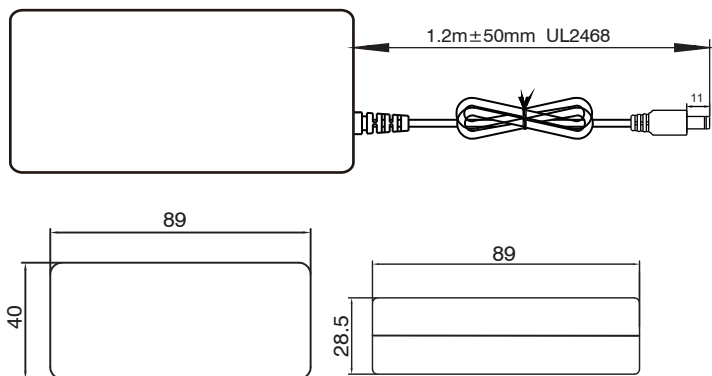
Model Description

YS24 - XXXYYYY - □ - D1J

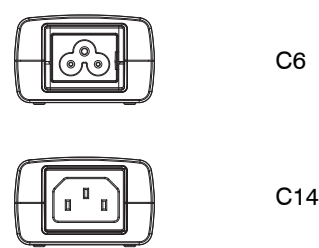


Dimensions and installation

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



Standard Cable	1.2m UL2468 (Option: UL2464, UL1185)
9 ~ 15V	18AWG
24V	20AWG
36 ~ 48V	22AWG



Specification

Model	Order P/N	YS24-0902660 -C6-D1J	YS24-1202000 -C6-D1J	YS24-1501600 -C6-D1J	YS24-2401000 -C6-D1J	YS24-3600660 -C6-D1J	YS24-4800500 -C6-D1J
	Safety Model No.	YS24-0902660	YS24-1202000	YS24-1501600	YS24-2401000	YS24-3600660	YS24-4800500
Output	DC Voltage	9V	12V	15V	24V	36V	48V
	Rated Current	2.66A	2A	1.6A	1A	0.66A	0.5A
	Rated Power	24W	24W	24W	24W	24W	24W
	Ripple & Noise(max.)	100mVp-p	150mVp-p	150mVp-p	200mVp-p	300mVp-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	0.5s,30ms,120ms/230VAC(at full load)			1.0s,30ms,12ms/115VAC(at full load)		
Input	Rated Voltage Range	100-240VAC					
	Voltage Range	85-265VAC					
	Frequency Range	50/60Hz					
	AC Current	0.8A/115VAC		0.55A/230VAC			
	Inrush Current	Cold Start 60A/200us at 230VAC 50Hz			Cold Start 40A/200us at 115VAC 50Hz		
	Leakage Current	<0.75mA/230VAC					
	Efficiency	86.5%	86.5%	87%	87.5%	88%	88.5%
	No Load Power Consumption	<0.1W					
Protection	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.	-30 ~ +70 °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	TUV BS EN/EN62368-1					
	Withstand Voltage	I/P-O/P: 1.5KVAC/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/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	160g/pcs; 44 x 41 x 21.5 cm; 100pcs/carton					
	Dimension (LxWxH)	89 x 40 x 28.5 mm					
	Plug and Cable	See page 3~5; Other type available by customer requested					
	MTBF	521.9Khrs min. MIL-HDBK-217F(25 °C)					
Note	<p>1. Tolerance: includes set up tolerance, line regulation and load regulation.</p> <p>2. Ripple & noise are measured at 20MHz of bandwidth by using a 12" twisted pair-wire terminated with a 0.1uf & 47uf parallel capacitor.</p> <p>3. Line regulation is measured from low line to high line at rated load.</p> <p>4. Load regulation is measured from 0% to 100% rated load.</p> <p>5. All parameters NOT specially mentioned are measured at nominal voltage input, rated load and 25 °C of ambient temperature.</p> <p>6. De-rating may be needed under low input voltages. Please refer to "Static Characteristic" sections for details.</p> <p>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.</p>						

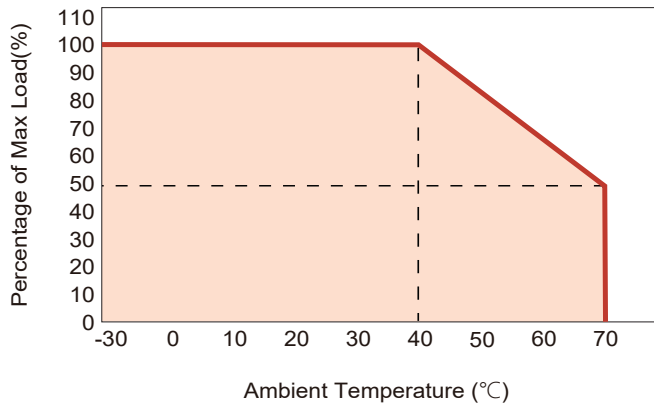
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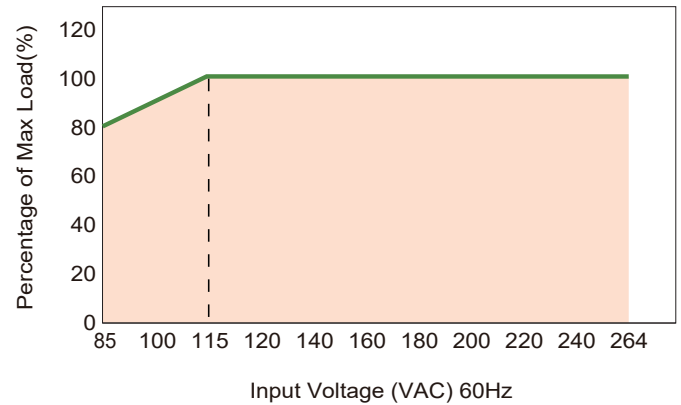
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Feature Curves

1. Derating Curve

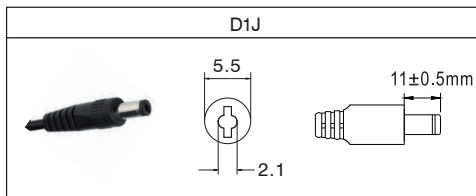
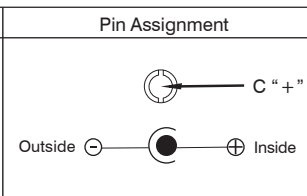


2. Static Characteristics



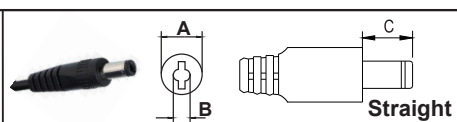
DC Output Plug (Option)

Standard Model : D1J

D1J	Pin Assignment
	

Optional DC plug:

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

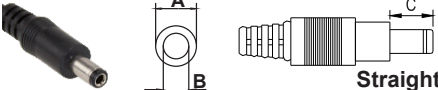
Tuning Fork Style			
	A	B	C
Type No.	OD	ID	L
D1I	5.5	2.1	9.5
D1L	5.5	2.5	9.5
D1M	5.5	2.5	11.0

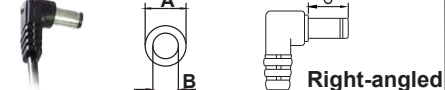
Tuning Fork Style			
	A	B	C
Type No.	OD	ID	L
D1IR	5.5	2.1	9.5
D1JR	5.5	2.1	11.0
D1LR	5.5	2.5	9.5
D1MR	5.5	2.5	11.0

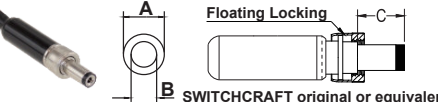
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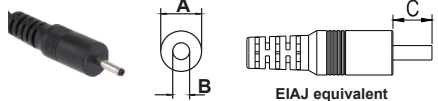
DC Output Plug (Option)

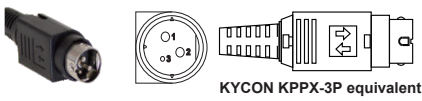
Barrel Style			
	A	B	C
Type No.	OD	ID	L
D2I	5.5	2.1	9.5
D2J	5.5	2.1	11.0
D2L	5.5	2.5	9.5
D2M	5.5	2.5	11.0

Barrel Style			
	A	B	C
Type No.	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			
	A	B	C
Type No.	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				
	A	B	C	D
Type No.	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

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

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DC Output Plug (Option)

MIN.Din 4Pin with Lock(male)		
	<p style="text-align: center;">KYCON KPPX-4P equivalent</p>	
Type No.	Pin Assignment	
	PIN No.	Output
M7B	1	+Vo
	2	-Vo
	3	-Vo
	4	+Vo

MIN.Din 4Pin with Lock(female)		
	<p style="text-align: center;">KYCON KPJX-CM-4S equivalent</p>	
Type No.	Pin Assignment	
	PIN No.	Output
M7BF	1	+Vo
	2	-Vo
	3	-Vo
	4	+Vo

Barrel Style		
	<p style="text-align: center;">Pin Assignment</p>	
Type No.	PIN No.	Output
	1	-Vo
M1B	2	-Vo
	3	+Vo
	4	-Vo
	5	+Vo

Stripped and tinned leads	<p style="text-align: center;">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</p>	
	<p style="text-align: center;">Pin Assignment</p>	
Type No.	PIN No.	Output
	1	+Vo
by customer	2	-Vo

Type-C			
	<p style="text-align: center;">Pin Assignment</p>		
Type No.	A	B	C
	OD	ID	L
C1	2.4	1.3	8.25