

YS12V-U SERIES

12W



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

- Digital Equipment
- Industrial Equipments
- Consumer Electronic Devices
- Telecommunication Devices

CB
SCHEME

FC

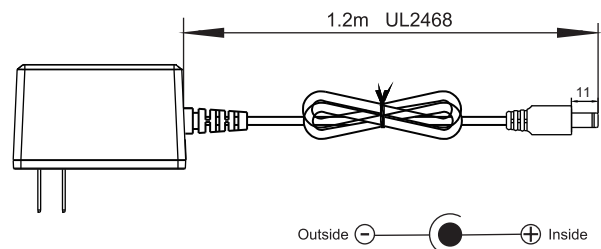
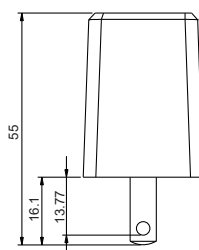
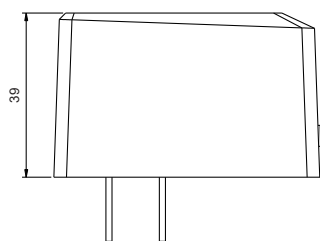
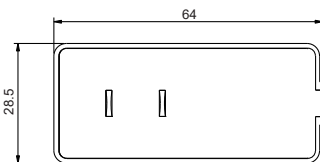
c UL US

Model Description

YS12V - XXXYYYY U-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 Page3-5)
- US Plug
- Output Current
- Output Voltage
- Series Name

Dimensions and installation



Standard Cable	1.2m UL2468 (Option: UL2464, UL1185)
5 ~ 12V	22AWG
15 ~ 36V	24AWG

File last modification time: 2025-2-25

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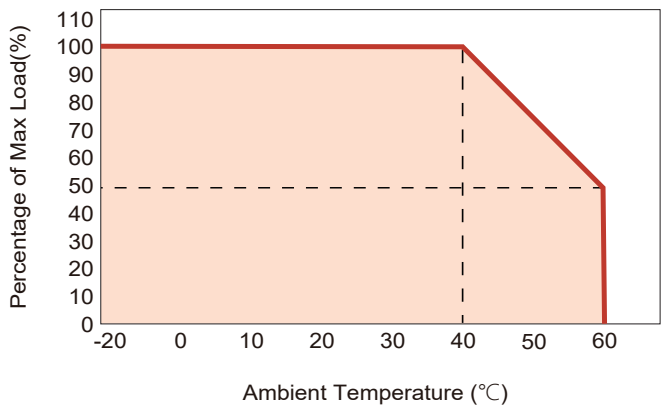
Specification

Model	Order P/N	YS12V-0502000U-D1J	YS12V-0601300U-D1J	YS12V-1201000U-D1J	YS12V-1500800U-D1J	YS12V-2400500U-D1J	YS12V-3600350U-D1J
	Safety Model No.	YS12V-0502000	YS12V-0601300	YS12V-1201000	YS12V-1500800	YS12V-2400500	YS12V-3600350
Output	DC Voltage	5V	9V	12V	15V	24V	36V
	Rated Current	2A	1.3A	1A	0.8A	0.5A	0.35A
	Rated Power	10W	11.7W	12W	12W	12W	12W
	Ripple & Noise(max.)	150mVp-p	150mVp-p	150mVp-p	150mVp-p	240mVp-p	300mVp-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,30ms,25ms/230VAC(at full load)			3.0s,30ms,12ms/115VAC(at full load)		
Input	Rated Voltage Range	100-240VAC					
	Voltage Range	90-264VAC					
	Frequency Range	50/60Hz					
	AC Current	0.4A/115VAC		0.2A/230VAC			
	Inrush Current	Cold Start 50A/200us at 230VAC 50Hz			Cold Start 25A/200us at 115VAC 50Hz		
	Leakage Current	<0.25mA/230VAC					
	Efficiency	79%	83%	83%	83.5%	83.5%	84%
	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.	-20 ~ +60 ℃ (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/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	FCC Part15(CISPR22)		CLASS B		
		Radiated	FCC Part15(CISPR22)		CLASS B		
Others	Packing	95g/pcs; 40 x 37.5 x 21.5 cm; 100pcs/carton					
	Dimension (LxWxH)	64 x 28.5 x 39 mm					
	Plug and Cable	See page 3~5; Other type available by customer requested					
	MTBF	231.5Khrs 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.						

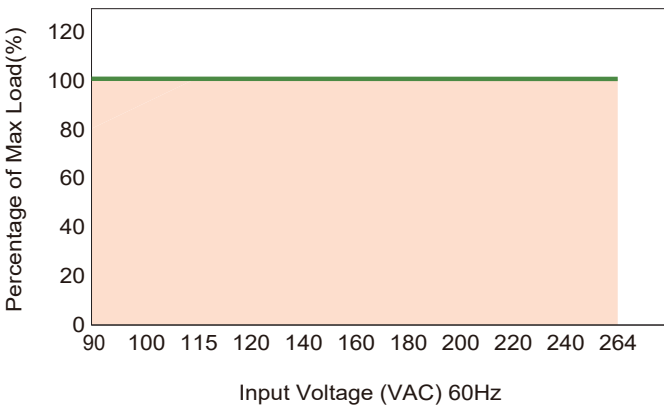
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Feature Curves

1. Derating Curve

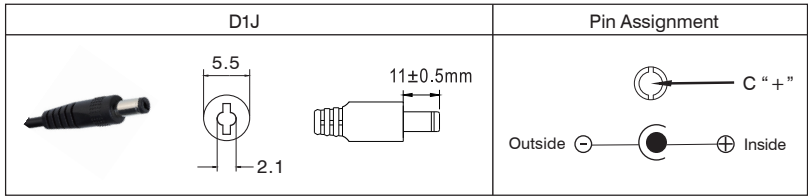


2. Static Characteristics

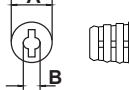
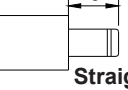


DC Output Plug (Option)

Standard Model : D1J



Optional DC plug:

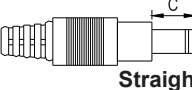
Tuning Fork Style			
Type No.	A	B	C
	OD	ID	L
D1I	5.5	2.1	9.5
D1L	5.5	2.5	9.5
D1M	5.5	2.5	11.0

Tuning Fork Style			
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

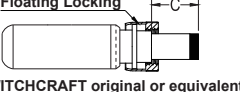
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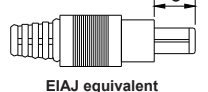
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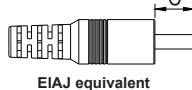
DC Output Plug (Option)

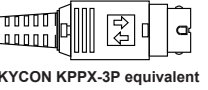
Barrel Style				Straight
Type No.	A	B	C	
	OD	ID	L	
D2I	5.5	2.1	9.5	
D2J	5.5	2.1	11.0	
D2L	5.5	2.5	9.5	
D2M	5.5	2.5	11.0	

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

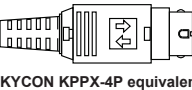
Tuning Fork Style				EIAJ equivalent
Type No.	A	B	C	
	OD	ID	L	
D3A	2.35	0.7	11.0	
D3B	4.0	1.7	11.0	
D3C	4.75	1.7	11.0	

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

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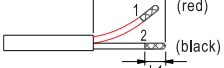
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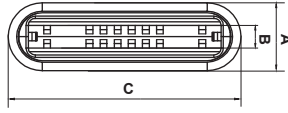
DC Output Plug (Option)

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

Barrel Style	   KYCON KPPX-4P equivalent	
	  KYCON KPJX-CM-4S equivalent	
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	
	  KYCON KPJX-CM-4S equivalent	
Type No.	Pin Assignment	
	PIN No.	Output
by customer	1	+Vo
	2	-Vo

Type-C	  A B C OD ID L		
	  KYCON KPJX-CM-4S equivalent		
Type No.	A	B	C
	OD	ID	L
C1	2.4	1.3	8.25