

YS18V-U SERIES

24W



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

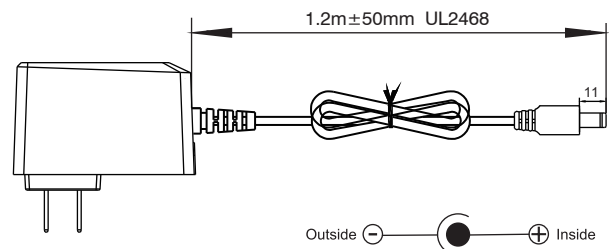
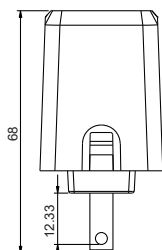
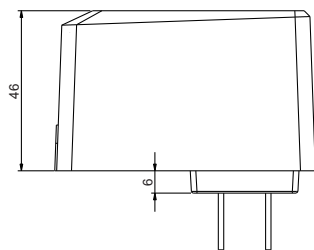
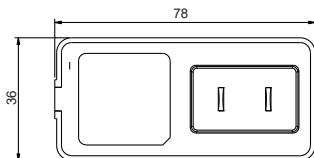
Model Description

YS18V - XXXYYYY U- D1J

- DC Plug Type { D1J: standard model, $\phi 2.1 \times \phi 5.5 \times 11\text{mm}$, C+, tuning fork type
- EU Plug { Other options available by customer requested (see Page3-5)
- Output Current
- Output Voltage
- Series Name

Dimensions and installation

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



Standard Cable	1.2m UL2468 (Option: UL2464, UL1185)
9 ~ 12V	20AWG
24V	22AWG
36 ~ 48V	24AWG

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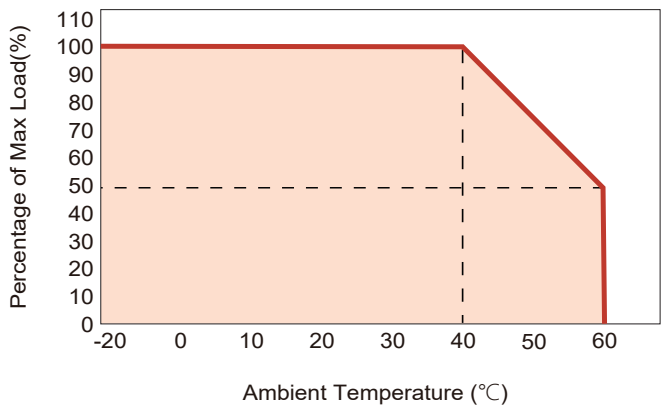
Specification

Model	Order P/N	YS18V-0902500U-D1J	YS18V-1202000U-D1J	YS18V-2401000U-D1J	YS18V-3600670U-D1J	YS18V-4800500U-D1J
	Safety Model No.	YS18V-0902500	YS18V-1202000	YS18V-2401000	YS18V-3600670	YS18V-4800500
Output	DC Voltage	9V	12V	24V	36V	48V
	Rated Current	2.5A	2A	1A	0.67A	0.5A
	Rated Power	22.5W	24W	24W	24W	24W
	Ripple & Noise(max.)	75mVp-p	100mVp-p	200mVp-p	300mVp-p	480mVp-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	1.2s,25ms,50ms/230VAC(at full load)			2.5s,25ms,12ms/115VAC(at full load)	
Input	Rated Voltage Range	100-240VAC				
	Voltage Range	90-264VAC				
	Frequency Range	50/60Hz				
	AC Current	0.8A/115VAC		0.55A/230VAC		
	Inrush Current	Cold Start 120A/200us at 230VAC 50Hz			Cold Start 45A/200us at 115VAC 50Hz	
	Leakage Current	<0.25mA/230VAC				
	Efficiency	86%	86.5%	87%	87%	87.5%
	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%				
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	135g/pcs; 44 x 41 x 21.5 cm; 100pcs/carton				
	Dimension (LxWxH)	78 x 36 x 46 mm				
	Plug and Cable	See page 3~5; Other type available by customer requested				
	MTBF	196.3Khrs 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.					

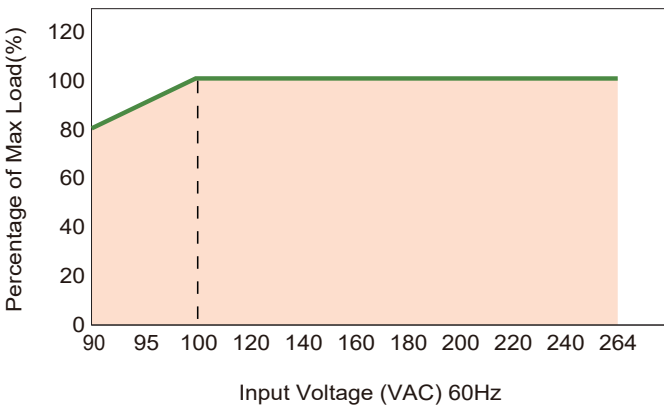
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Feature Curves

1. Derating Curve

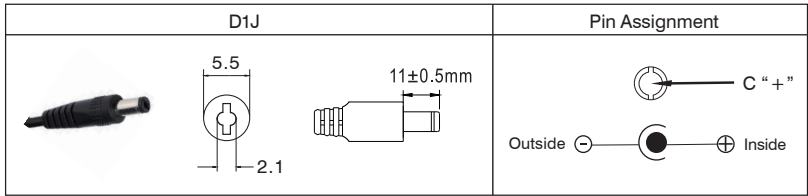


2. Static Characteristics



DC Output Plug (Option)

Standard Model : D1J



Optional DC plug:
(Unit: mm , tolerance: ±0.5mm)

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

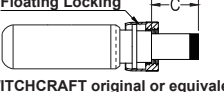
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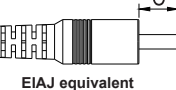
DC Output Plug (Option)

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

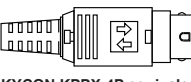
Tuning Fork Style				EIAJ equivalent
Type No.	A	B	C	
	OD	ID	L	
D3A	2.35	0.7	11.0	
D3B	4.0	1.7	11.0	
D3C	4.75	1.7	11.0	

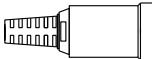
MIN.Din 3Pin with Lock(male)				KYCON KPPX-3P equivalent
Type No.	Pin Assignment			
	PIN No.	Output		
M6B	1	+Vo		
	2	-Vo		
	3	+Vo		

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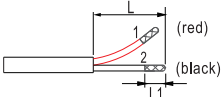
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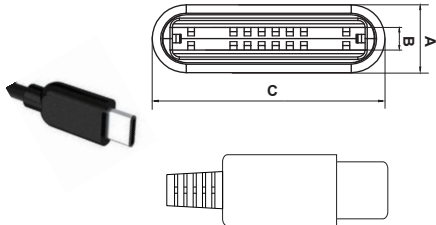
DC Output Plug (Option)

MIN.Din 4Pin with Lock(male)	 KYCON KPPX-4P equivalent	
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	  (red) (black) 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
by customer	PIN No.	Output
	1	+Vo
	2	-Vo

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