

YS18A SERIES

30W



Features

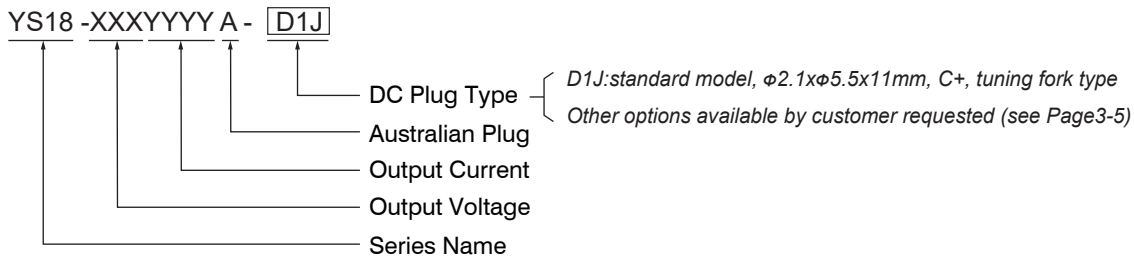
- Energy efficiency level VI
- Class II Power Supply
- 3 Years Warranty
- Universal AC input/Full range
- No load power consumption < 0.1W
- Protections: Short Circuit /Over Load / Over Voltage
- -20~+60℃ wide range working temperature

Applications

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

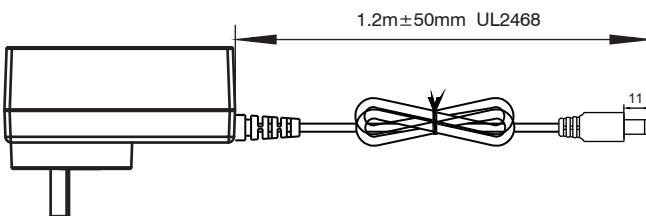
RoHS  

Model Description



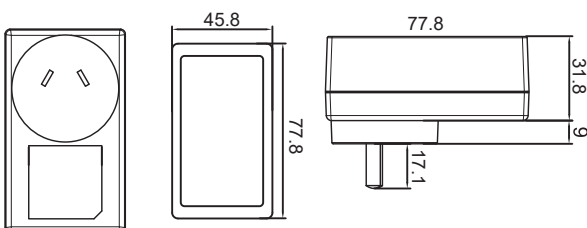
Dimensions and installation

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



Standard Cable	1.2m UL2468 (Option: UL2464, UL1185)
5 ~ 15V	20AWG
24V	22AWG
36V	24AWG

Outside   Inside



File last modification time: 2025-2-25

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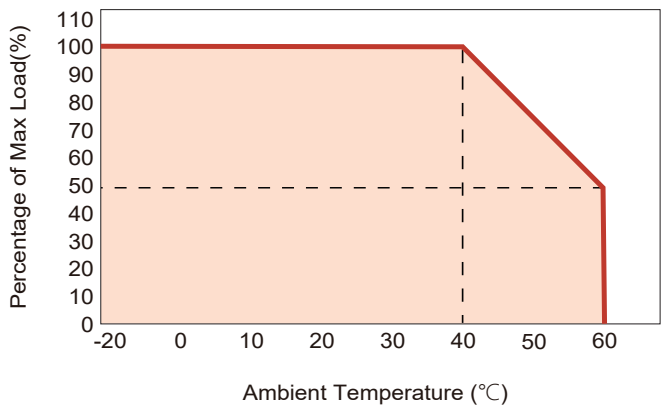
Specification

Model	Order P/N	YS18-0503000A-D1J	YS18-0903000A-D1J	YS18-1202500A-D1J	YS18-1502000A-D1J	YS18-2401250A-D1J	YS18-3600830A-D1J
	Safety Model No.	YS18-0503000	YS18-0903000	YS18-1202500	YS18-1502000	YS18-2401250	YS18-3600830
Output	DC Voltage	5V	9V	12V	15V	24V	36V
	Rated Current	3A	3A	2.5A	2A	1.25A	0.83A
	Rated Power	15W	27W	30W	30W	30W	30W
	Ripple & Noise(max.)	75mVp-p	120mVp-p	150mVp-p	200mVp-p	240mVp-p	360mVp-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,50ms,30ms/230VAC(at full load)			2.0s,50ms,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 30A/200us at 115VAC 50Hz		
	Leakage Current	<0.25mA/230VAC					
	Efficiency	82%	87%	87.5%	87.5%	88%	88%
	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	AS/NZS 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	AS/NZS CISPR 32		Table A.10		
		Radiated	AS/NZS CISPR 32		Table A.4		
Others	Packing	180g/pcs; 52.5 x 31 x 31 cm; 100pcs/carton					
	Dimension (LxWxH)	77.8 x 45.8 x 31.8 mm					
	Plug and Cable	See page 3~5; Other type available by customer requested					
	MTBF	206.1Khrs 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.						

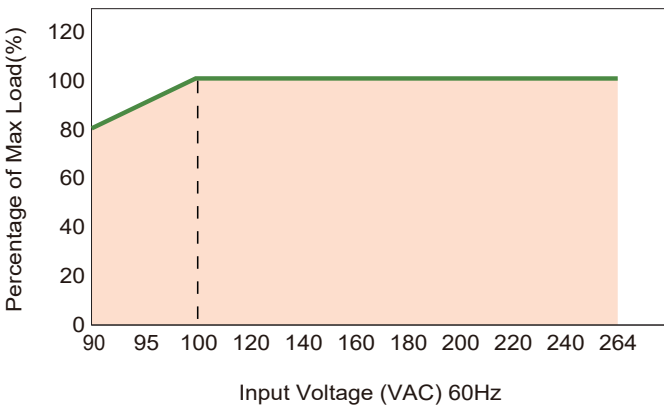
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Feature Curves

1. Derating Curve

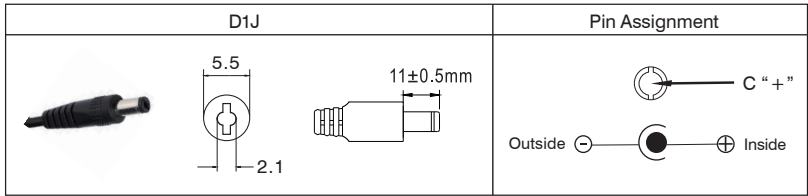


2. Static Characteristics

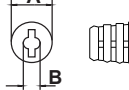
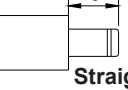


DC Output Plug (Option)

Standard Model : D1J



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

Tuning Fork Style			
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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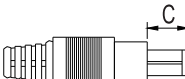
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DC Output Plug (Option)

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

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

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

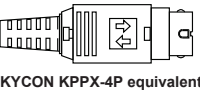
Barrel Style			
Type No.	Pin Assignment		
	PIN No.	Output	
M1B	1	-Vo	
	2	-Vo	
	3	+Vo	
	4	-Vo	
	5	+Vo	

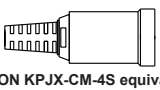
MIN.Din 3Pin with Lock(male)			
			KYCON KPPX-3P equivalent
Type No.	Pin Assignment		
	PIN No.	Output	
M6B	1	+Vo	
	2	-Vo	
	3	+Vo	

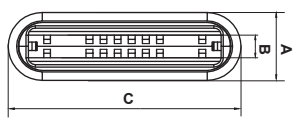
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DC Output Plug (Option)

MIN.Din 4Pin with Lock(male)	   KYCON KPPX-4P equivalent												
	Pin Assignment <table> <tr> <th>Type No.</th><th>PIN No.</th><th>Output</th></tr> <tr> <td rowspan="4">M7B</td><td>1</td><td>+Vo</td></tr> <tr> <td>2</td><td>-Vo</td></tr> <tr> <td>3</td><td>-Vo</td></tr> <tr> <td>4</td><td>+Vo</td></tr> </table>		Type No.	PIN No.	Output	M7B	1	+Vo	2	-Vo	3	-Vo	4
Type No.	PIN No.	Output											
M7B	1	+Vo											
	2	-Vo											
	3	-Vo											
	4	+Vo											

MIN.Din 4Pin with Lock(female)	   KYCON KPJX-CM-4S equivalent												
	Pin Assignment <table> <tr> <th>Type No.</th><th>PIN No.</th><th>Output</th></tr> <tr> <td rowspan="4">M7BF</td><td>1</td><td>+Vo</td></tr> <tr> <td>2</td><td>-Vo</td></tr> <tr> <td>3</td><td>-Vo</td></tr> <tr> <td>4</td><td>+Vo</td></tr> </table>		Type No.	PIN No.	Output	M7BF	1	+Vo	2	-Vo	3	-Vo	4
Type No.	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

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