

YS39A SERIES
60W



Features

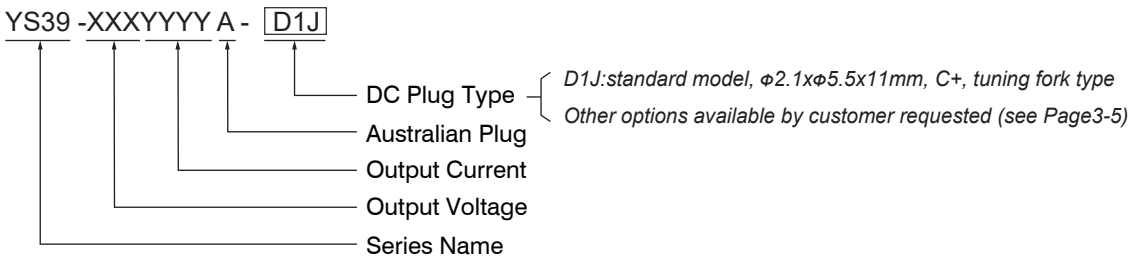
- Energy efficiency level VI
- Class II Power Supply
- 3 Years Warranty
- Universal AC input/Full range
- No load power consumption < 0.21W
- Protections: Short Circuit /Over Load / Over Voltage
- -20~+60℃wide range working temperature

Applications

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

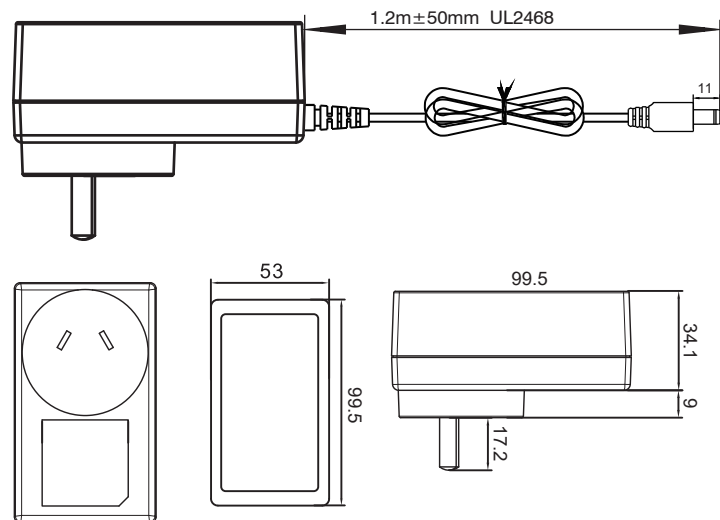
RoHS VI  
Pending Pending Pending

Model Description



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

Outside   Inside

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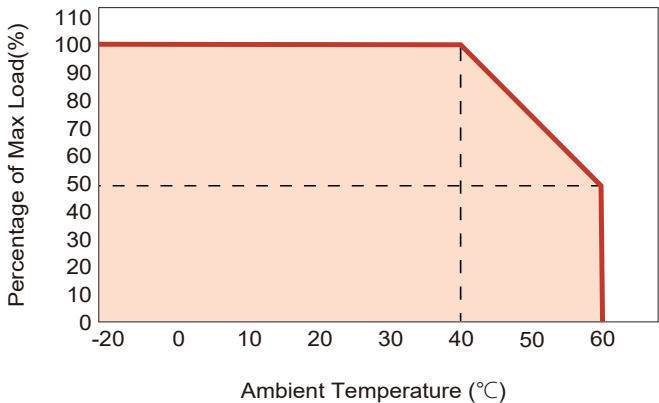
Specification

Model	Order P/N	YS39-0906660A-D1J	YS39-1205000A-D1J	YS39-150400A-D1J	YS39-2402500A-D1J	YS39-3601660A-D1J	YS39-4801250A-D1J
	Safety Model No.	YS39-0906660	YS39-1205000	YS39-1504000	YS39-2402500	YS39-3601660	YS39-4801250
Output	DC Voltage	9V	12V	15V	24V	36V	48V
	Rated Current	6.66A	5A	4A	2.5A	1.66A	1.25A
	Rated Power	60W	60W	60W	60W	60W	60W
	Ripple & Noise(max.)	90mVp-p	150mVp-p	200mVp-p	240mVp-p	360mVp-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	1.0s,50ms,30ms/230VAC(at full load)			3.0s,50ms,18ms/115VAC(at full load)		
Input	Rated Voltage Range	100-240VAC					
	Voltage Range	90-264VAC					
	Frequency Range	50/60Hz					
	AC Current	0.9A/115VAC		0.6A/230VAC			
	Inrush Current	Cold Start 50A/200us at 230VAC 50Hz			Cold Start 30A/200us at 115VAC 50Hz		
	Leakage Current	<0.25mA/230VAC					
	Efficiency	88%	88%	88%	88.5%	89%	89.5%
	No Load Power Consumption	<0.21W					
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 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	BS EN IEC 62368-1					
	Withstand Voltage	I/P-O/P: 3KVAC/1min					
	Isolation Resistance	I/P-O/P:100M Ohms / 500VDC / 25 C / 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	250g/pcs; 42.5 x 27 x 32.5 cm; 50pcs/carton					
	Dimension (LxWxH)	99.5 x 53 x 34.1 mm					
	Plug and Cable	See page 3~5; Other type available by customer requested					
	MTBF	189.4Khrs min. MIL-HDBK-217F(25 C)					
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 C 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.						

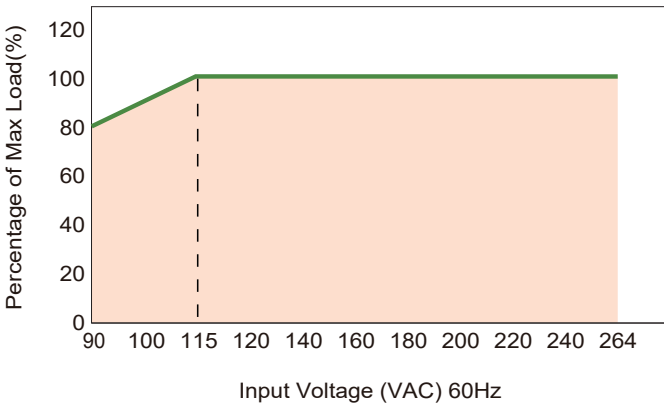
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Feature Curves

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

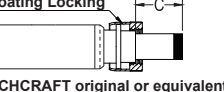
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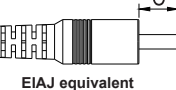
DC Output Plug (Option)

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	

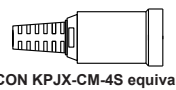
MIN.Din 3Pin with Lock(male)				KYCON KPPX-3P equivalent
Type No.	Pin Assignment			
	PIN No.	Output		
M6B	1	+Vo		
	2	-Vo		
	3	+Vo		

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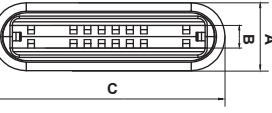
DC Output Plug (Option)

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											

Barrel Style	  	
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							
Type No.	Pin Assignment <table><tr><th>PIN No.</th><th>Output</th></tr><tr><td>1</td><td>+Vo</td></tr><tr><td>2</td><td>-Vo</td></tr></table>		PIN No.	Output	1	+Vo	2	-Vo
PIN No.	Output							
1	+Vo							
2	-Vo							
by customer	1	+Vo						
	2	-Vo						

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