

YS12A SERIES

Input: 100-240VAC 50/60Hz

Output Voltage: 5V-36V DC

Rated Power: 12W max

Features

Universal AC input/ Full range

Energy efficiency level VI

Leakage Current: < 0.25mA

Extremely low leakage current

Protection: Over load/Over voltage/Short circuit

Withstand voltage : 3KV

Life Warranty: 3 years

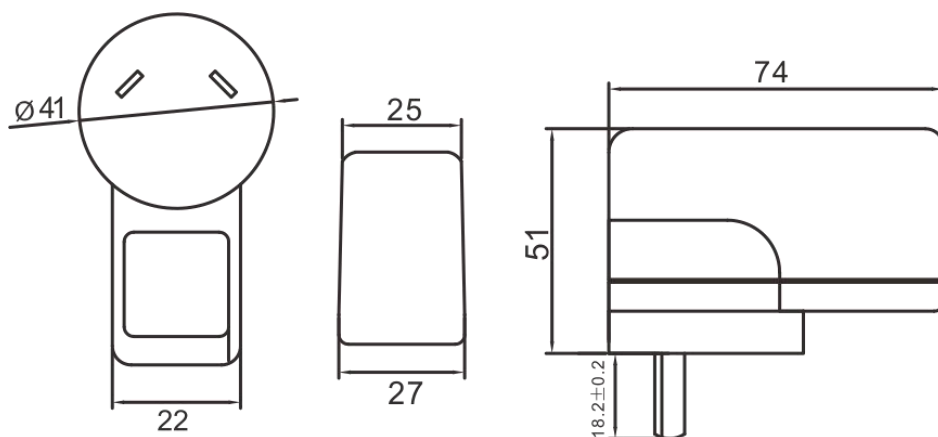
Application

Digital equipment

Electric curtains

Kitchen appliances

Household appliances

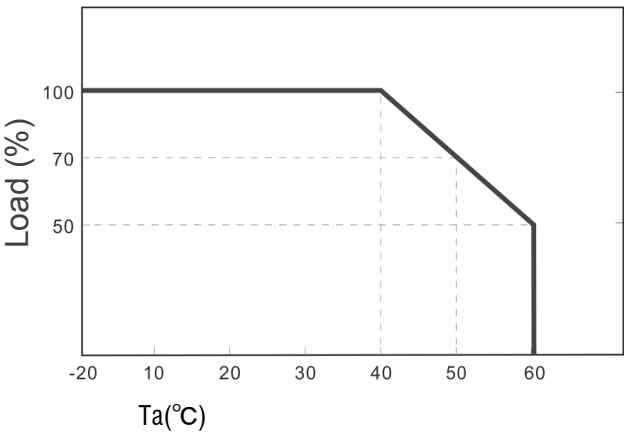
**■ Dimensions and Installation**

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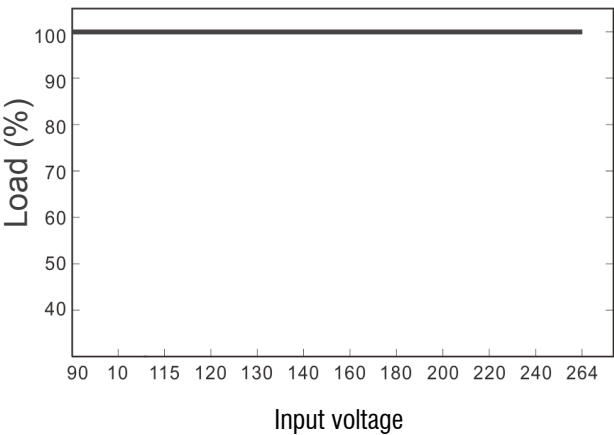
MODEL		DETAIL		SPEC.		YS12-0502000	YS12-0602000	YS12-0751500	YS12-0901300	YS12-1201000	YS12-1500800	YS12-2400500	YS12-3600350
INPUT	Input Voltage:	100-240VAC											
	Input Frequency:	50/60Hz											
	Inrush Current:	30 Amps max. at 230VAC/50Hz,full load											
	AC Current:	0.26A max.											
	Leakage Current:	0.25mA Max. at 264VAC input											
	Efficiency:	79%	80.3%	82.89%	83.12%	83.26%	83.26%	83.26%	83.26%	83.54%			
OUTPUT	DC Voltage:	5V	6V	7.5V	9V	12V	15V	24V	36V				
	Rated Current:	2A	2A	1.5A	1.3A	1A	0.8A	0.5A	0.35A				
	Rated Power:	10W	12W	11.25W	11.7W	12W	12W	12W	12.6W				
	Voltage Tolerance:	±5.0%	±5.0%	±5.0%	±5.0%	±5.0%	±5.0%	±5.0%	±5.0%				
	Ripple and Noise:	100mVp-p	100mVp-p	100mVp-p	100mVp-p	120mVp-p	150mVp-p	240mVp-p	360mVp-p				
	Line Regulation:	±3%											
	Load Regulation:	±5%	±5%	±5%	±5%	±5%	±5%	±5%	±5%				
	Setup, Rise, Hold Up time:	500ms, 30ms/120ms 230VAC 1000ms, 30ms/25ms 115VAC at full load											
ENVIRONMENTAL	Operating Temperature:	-20 ~ +60 (Refer to "Derating Curve")											
	Storage Temp:	-40℃ ~ 85℃											
	Storage Humidity:	10 ~ 95% RH											
	Working Humidity:	20 ~ 95% RH non-condensing											
PROTECTION	Over Load:	Above 105% rated output power											
		Protection type: Hiccup mode, recovers automatically after fault condition is removed											
	Over Voltage:	5V:5.75~ 6.75V 6V: 6.7~8.1V 9V: 10.35~12.15V 12V:13.8 ~ 16.2V 15V:17.25 ~ 20.25V 24V:27.6 ~ 32.4V 36V: 41.4~48.6V											
		Protection type: Shut down o/p voltage, re-power on to recover											
Over Temperature:	Shut down o/p voltage, re-power on to recover												
SAFETY & EMC	Safety Regulations:	UL508, TUV BS EN/EN62368-1, EAC TP TC 004, BSMI CNS14336-1, AS/NZS 62368.1 approved											
	Withstand Voltage:	I/P-O/P:3KVAC I/P-FG:2KVAC O/P-FG:0.5KVAC											
	Isolation Resistance:	I/P-O/P, I/P-FG, O/P-FG:100M Ohms / 500VDC / 25℃/ 70% RH											
	EMC Emission:	Compliance to BS EN/EN55032 (CISPR32), BS EN/EN61204-3 Class B, BS EN/EN61000-3-2,-3, EAC TP TC 020, CNS13438 Class B											
OTHER	Size:	59*39*36.5mm											
	Weight:	65g / pcs											
	Packaging:	100PCS/CTN											

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Deduction curve
and temperature

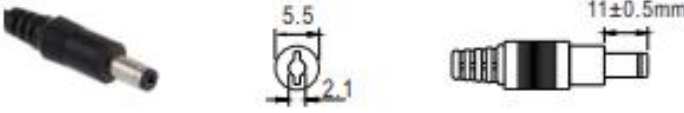
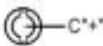


Minus output
and input voltage curves



Functional Diagram

Standard plug: P1J

P1J	Pin Assignment
	
	Outside  Inside
	-V not connected to AC FG(standard)
	-V connected to AC FG(optional)

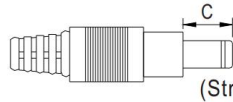
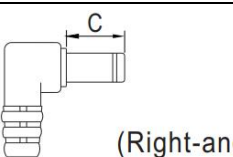
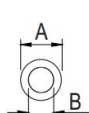
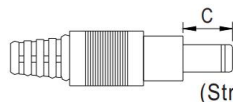
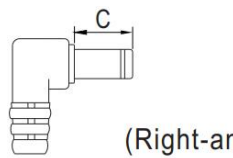
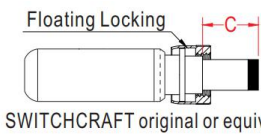
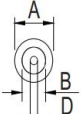
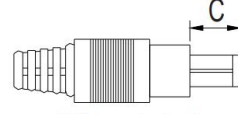
DC plug changeable through:

- (1) Customization of the standard part with an optional DC plug according to the table (MOQ applicable)
 - (2) Quick adapter accessory (sold separately without MOQ)
- Please refer to below table and online selection guide :

Example quick adapter accessory:

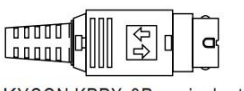
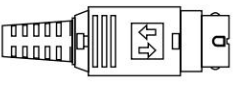
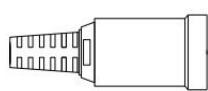
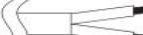
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Optional DC plug: (Available in customized cable or quick adapter)

Tuning Fork Style			Type No.	A	B	C	Quick Adapter Accessory	
				OD	ID	L		
   	(Straight)	P1I	5.5	2.1	9.5	Available (Current rating: 7.5A max.)		
		P1L	5.5	2.5	9.5			
		P1M	5.5	2.1	11.0			
		P1IR	5.5	2.5	9.5			
		P1JR	5.5	2.1	11.0			
		P1LR	5.5	2.5	9.5			
		P1MR	5.5	2.5	11.0			
Barrel Style			Type No.	A	B	C	Quick Adapter Accessory	
				OD	ID	L		
   	(Straight)	P2I	5.5	2.1	9.5	None		
		P2J	5.5	2.1	11.0			
		P2L	5.5	2.5	9.5			
		P2M	5.5	2.1	11.0			
		P2IR	5.5	2.5	9.5			
		P2JR	5.5	2.1	11.0			
		P2LR	5.5	2.5	9.5			
		P2MR	5.5	2.5	11.0			
Lock Style			Type No.	A	B	C		
				OD	ID	L		
  		P2S(S761K)	5.53	2.03	12.06	None		
		P2K(761K)	5.53	2.54	12.06			
		P2C(S760K)	5.53	2.03	9.52			
		P2D(760K)	5.53	2.54	9.52			
Center Pin Style			Type No.	A	B	C	D	Available (Current rating: 7.5A max.)
				OD	ID	L	Center Pin	
  	(Straight)	P4A	5.5	3.4	11.0	1.0		
		P4B	6.5	4.4	11.0	1.4		
		P4C	7.4	5.1	11.0	0.6		
Min. Pin Style			Type No.	A	B	C	Available (Current rating: 5A max.)	
				OD	ID	L		
  	(Straight)	P3A	2.35	0.7	11.0			
		P3B	4.0	1.7	11.0			
		P3C	4.75	1.7	11.0			

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Optional DC plug: (Available in customized cable or quick adapter)

Tuning Fork Style	Type No.	Pin Assignment		Quick Adapter Accessory
		PIN No.	Output	
  	R6B	1	+Vo	Available (Current rating: 7.5A max.)
		2	-Vo	
		3	+Vo	
Barrel Style	Type No.	Pin Assignment		
		PIN No.	Output	
  	R7B	PIN No.	Output	Available (Current rating: 7.5A max.)
		1	+Vo	
		2	-Vo	
		3	-Vo	
		4	+Vo	
Lock Style	Type No.	Pin Assignment		
		PIN No.	Output	
  	R7BF	PIN No.	Output	None
		1	+Vo	
		2	-Vo	
		3	-Vo	
		4	+Vo	
Center Pin Style	Type No.	Pin Assignment		
		PIN No.	Output	
  	R1B	PIN No.	Output	Available (Current rating: 7.5A max.)
		1	-Vo	
		2	-Vo	
		3	+Vo	
		4	-Vo	
		5	+Vo	
Center Pin Style	Type No.	Pin Assignment		
		PIN No.	Output	
  	by customer	1	+Vo	None
		2	-Vo	