

YS12V SERIES



Input: 100-265VAC 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

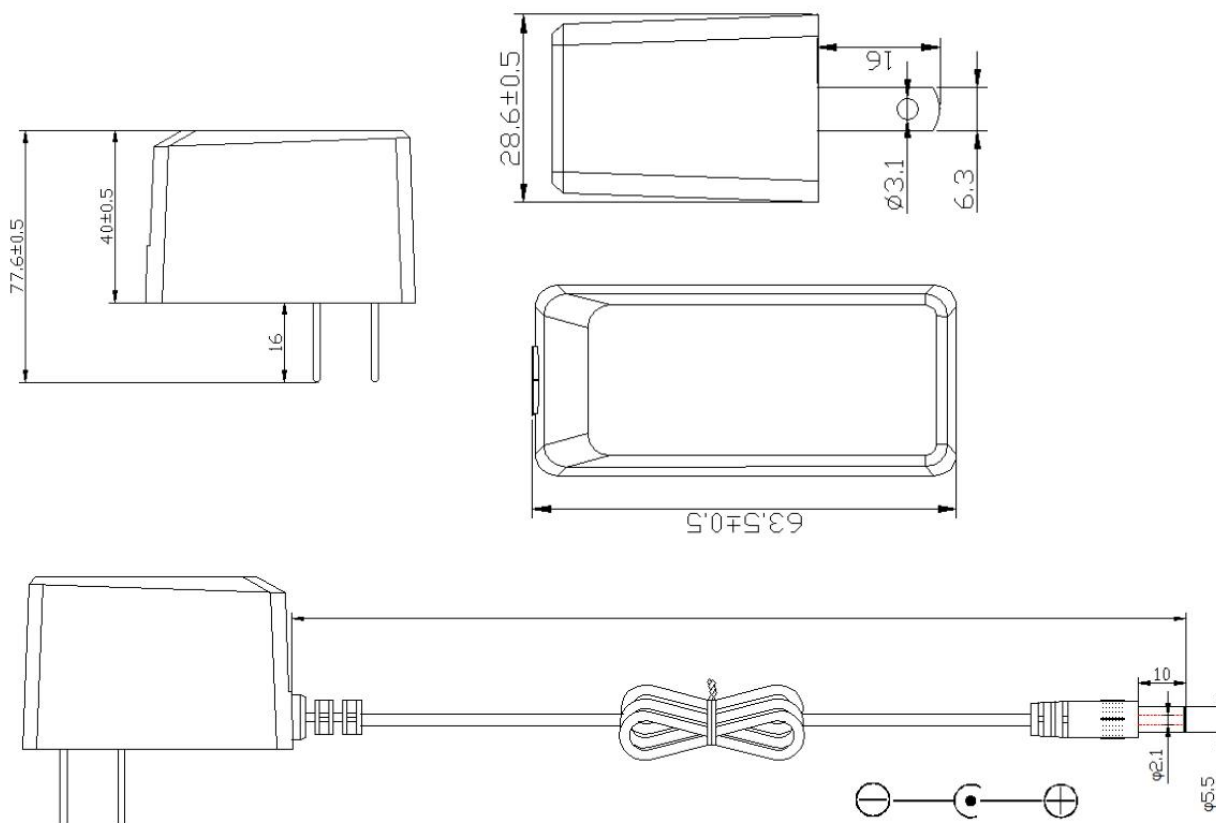
Electric curtains

Kitchen appliances

Household appliances



■ Dimensions and Installation

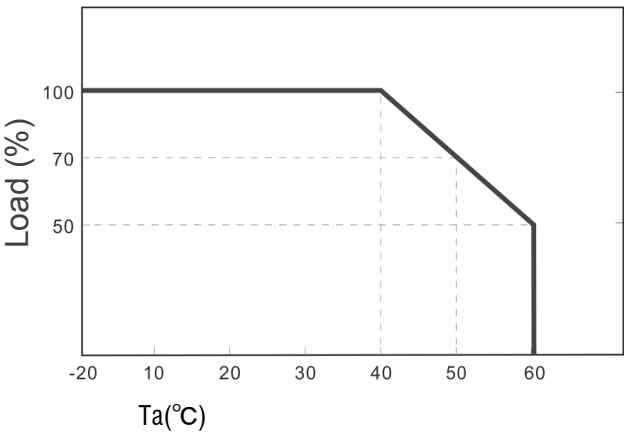


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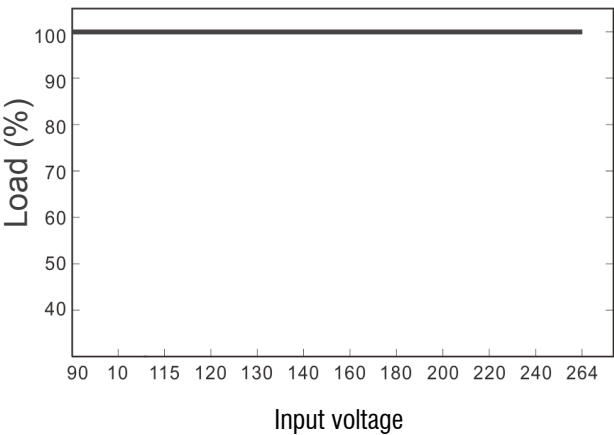
MODEL DETAIL SPEC.		YS12V-0502000	YS12V-0901300	YS12V-1201000	YS12V-1500800	YS12V-2400500	YS12V-3600350
INPUT	Input Voltage:	85-265VAC					
	Input Frequency:	50/60Hz					
	Inrush Current:	15A/115VAC 30A/230VAC					
	AC Current:	0.2A/115VAC 0.21A/230VAC					
	Leakage Current:	< 0.25mA/240VAC					
	Efficiency:	79%	83.12%	83.26%	83.26%	83.26%	83.54%
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
	Voltage Tolerance:	±5.0%	±5.0%	±5.0%	±5.0%	±5.0%	±5.0%
	Ripple and Noise:	75mVp-p	90mVp-p	120mVp-p	150mVp-p	240mVp-p	300mVp-p
	Line Regulation:	±3%					
	Load Regulation:	±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°C ~ 85°C					
	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 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:	UL62368, 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°C/ 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					
	EMC Immunity:	EN/EN61000-4-2,3,4,5,6,8,11					
OTHER	MTBF:	100Khrs min. MIL-HDBK-217F(25°C)					
	Size:	68*30*37mm					
	Weight:	85g / pcs					
	Packaging:	100PCS/CTN					

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Deduction curve
and temperature

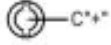


Minus output
and input voltage curves



Functional Diagram

Standard plug: P1J

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

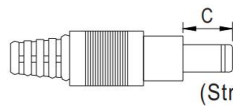
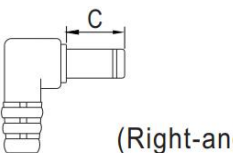
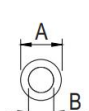
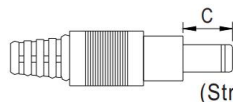
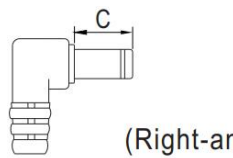
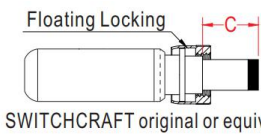
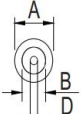
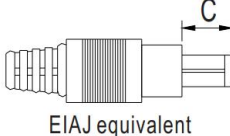
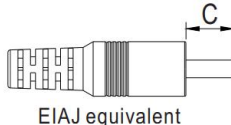
DC plug changeable through:

- (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:

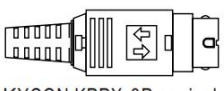
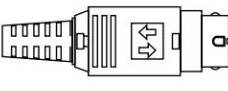
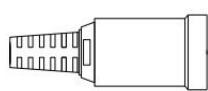
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Optional DC plug: (Available in customized cable or quick adapter)

Tuning Fork Style			Type No.	A	B	C	Quick Adapter Accessory
				OD	ID	L	
   (Straight)  (Right-angled)	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)  (Right-angled)	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	Quick Adapter Accessory
				OD	ID	L	
   Floating Locking SWITCHCRAFT original or equivalent	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	Quick Adapter Accessory
				OD	ID	L	
   EIAJ equivalent	P4A	5.5	3.4	11.0	1.0	Available (Current rating: 7.5A max.)	
	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	Quick Adapter Accessory
				OD	ID	L	
   EIAJ equivalent	P3A	2.35	0.7	11.0	Available (Current rating: 5A max.)		
	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	
   KYCON KPPX-3P equivalent	R6B	1	+Vo	Available (Current rating: 7.5A max.)
		2	-Vo	
		3	+Vo	
Barrel Style	Type No.	Pin Assignment		
		PIN No.	Output	
   KYCON KPPX-4P equivalent	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	
   KYCON KPJX-CM-4S equivalent	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	