

YS50 SERIES



Input: 100-265VAC 50/60Hz

Output Voltage: 5V-36V DC

Rated Power: 60W 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

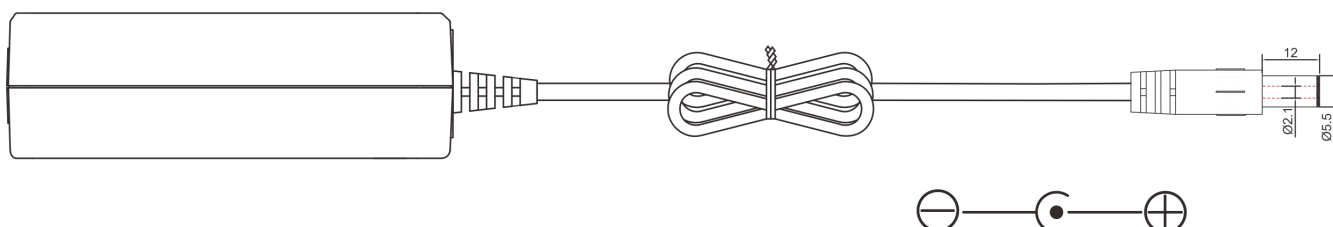
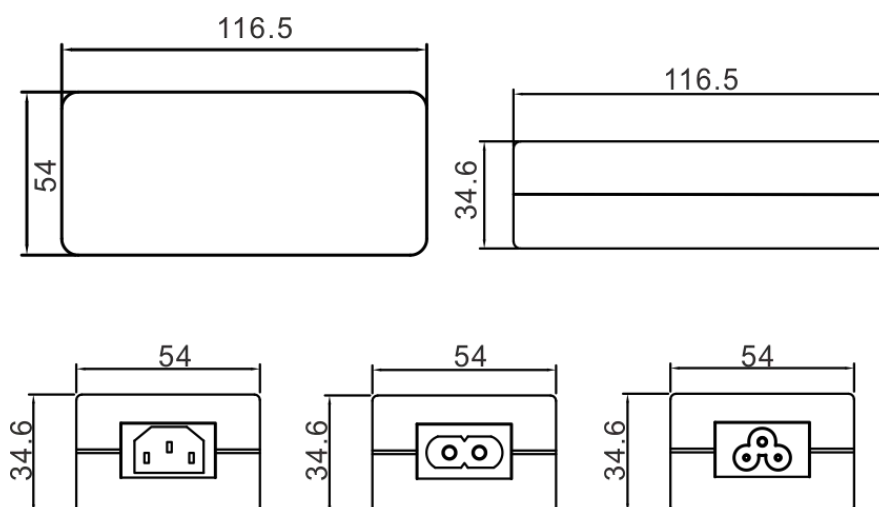
Electric curtains

Kitchen appliances

Household appliances



■ Dimensions and Installation

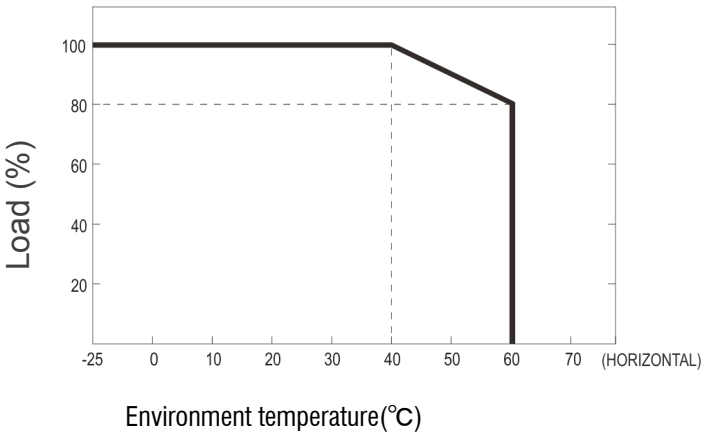


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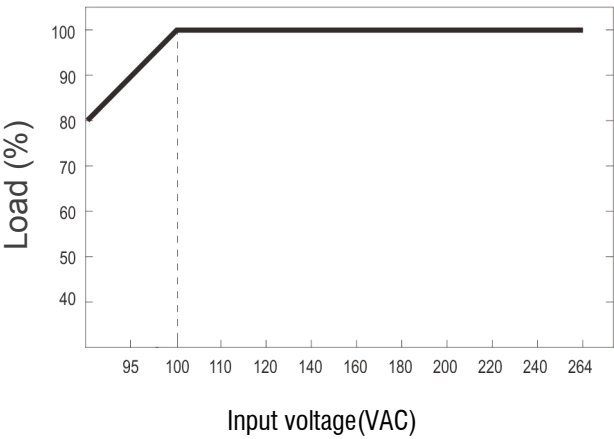
MODEL DETAIL SPEC.		YS50-0905000	YS50-1205000	YS50-1504000	YS50-2402500	YS50-3002000	YS50-4801250
INPUT	Input Voltage:	85-265VAC					
	Input Frequency:	50/60Hz					
	Inrush Current:	40A/115VAC 60A/230VAC					
	AC Current:	1.5A max.					
	Leakage Current:	< 0.25mA/240VAC					
	Efficiency:	88.85%	89%	89%	89%	89%	89%
OUTPUT	DC Voltage:	9V	12V	15V	24V	30V	48V
	Rated Current:	5A	5A	4A	2.5A	2.0A	1.25A
	Rated Power:	45W	60W	60W	60W	60W	60W
	Voltage Tolerance:	±5.0%	±5.0%	±5.0%	±5.0%	±5.0%	±5.0%
	Ripple and Noise:	90mVp-p	120mVp-p	200mVp-p	240mVp-p	300mVp-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:	≤Vout*150%					
		Protection type: Shut down o/p voltage, re-power on to recover					
	Over Temperature:	N/A					
SAFETY & EMC	Safety Regulations:	UL62368-1, 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:	500Khrs min. MIL-HDBK-217F(25°C)					
	Size:	115.5*52*32.5mm					
	Weight:	260g / pcs					
	Packaging:	50PCS/CTN					

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Deduction curve
and temperature

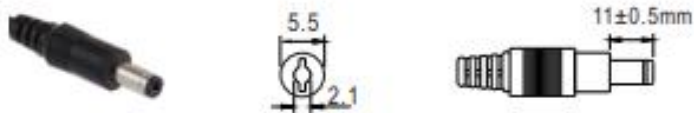
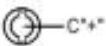


Minus output
and input voltage curves



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:

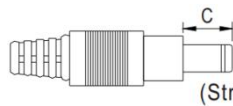
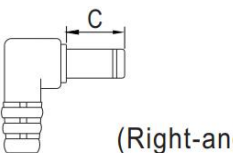
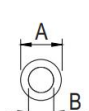
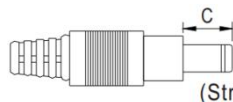
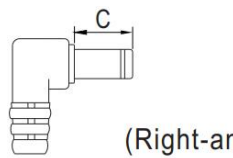
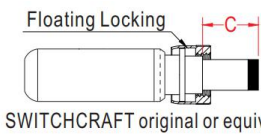
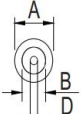
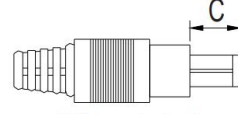
- (1) Customization of the standard part with an optional DC plug according to the table (MOQ applicable)

(2) Quick adapter accessory (sold separately without MOQ)
- Please refer to below table and online selection guide :

Example quick adapter accessory:

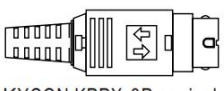
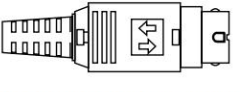
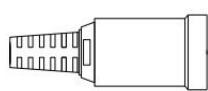
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Optional DC plug: (Available in customized cable or quick adapter)

Tuning Fork Style			Type No.	A	B	C	Quick Adapter Accessory	
				OD	ID	L		
   		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		
   		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		
  		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	Quick Adapter Accessory
				OD	ID	L	Center Pin	
  		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		
  		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	