YINGJIAO®

Switching Power Adapter

YS50 SERIES



Input: 100-265VAC 50/60Hz
Output Voltage: 5V-36V DC
Rated Power: 60W max

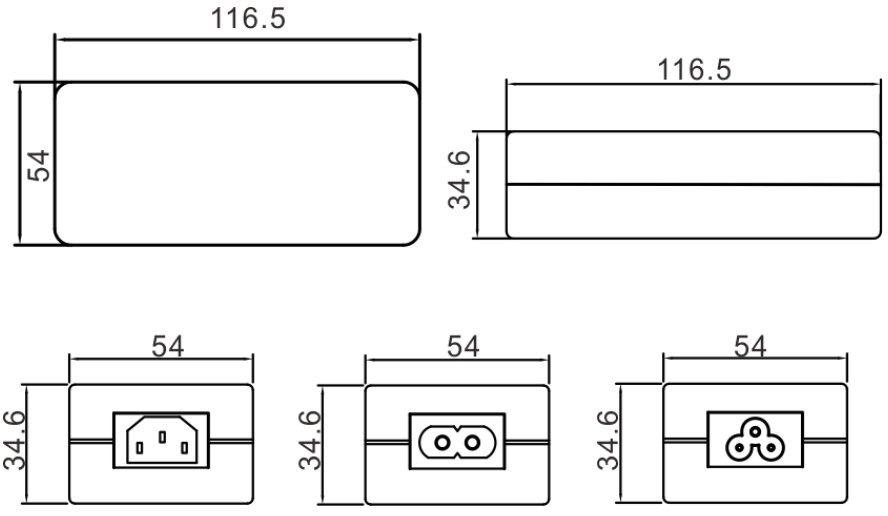
Features

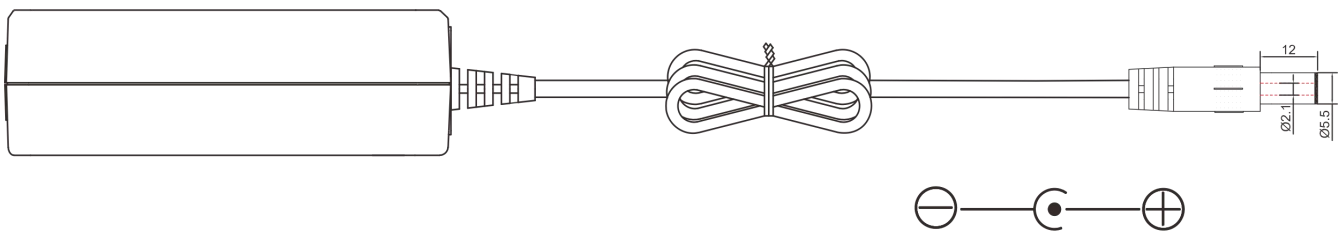
Univeral AC input/ Full range
Energy efficiency level VI
Leakage Current: < 0.25mA
Extremely low leakage current
Protection:Over load/Over voltage/Short circuit
Withstand voltage : 3KV
Life Warranty: 3 years

Application

Digital equipment
Electric curtains
Kitchen appliances
Household appliances

Dimensions and Installation





YINGJIAO®

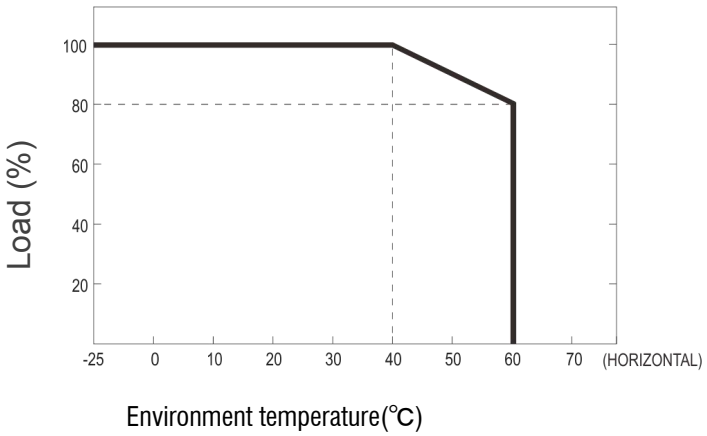
Switching Power Adapter

YS50 SERIES

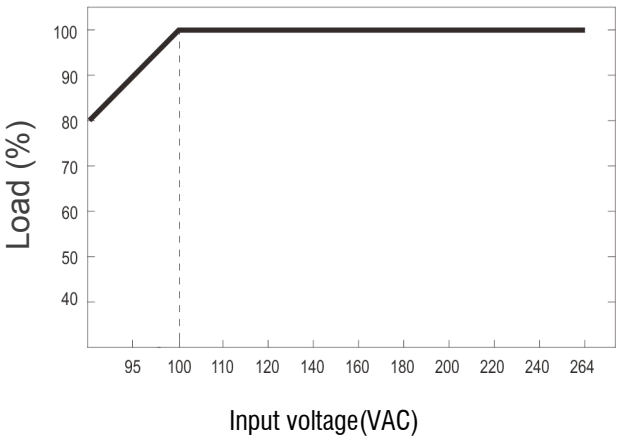
MODEL DETAIL SPEC.		YS50-0905000	YS50-1205000	YS50-1504000	YS50-1903160	YS50-2502500	YS50-4801250
INPUT	Input Voltage:	85-265VAC					
	Input Frequency:	50/60Hz					
	Inrush Current:	40A/115VAC 60A/230VAC					
	AC Current:	1.5A max.					
	Leakage Current:	< 0.25mA/240VAC					
	Efficiency:	88.85%	89%	89%	89%	89%	89%
OUTPUT	DC Voltage:	9V	12V	15V	19V	25V	48V
	Rated Current:	5A	5A	4A	3.16A	2.5A	1.25A
	Rated Power:	45W	60W	60W	60W	62.5W	60W
	Voltage Tolerance:	±5.0%	±5.0%	±5.0%	±5.0%	±5.0%	±5.0%
	Ripple and Noise:	90mVp-p	120mVp-p	200mVp-p	200mVp-p	250mVp-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℃ ~ 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:	≤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℃/ 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℃)					
	Size:	115.5*52*32.5mm					
	Weight:	260g / pcs					
	Packaging:	50PCS/CTN					

YS50 SERIES

Deduction curve and temperature

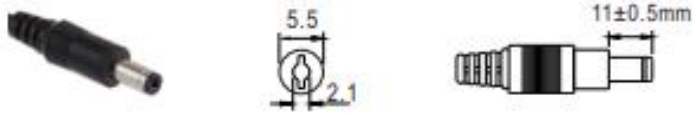
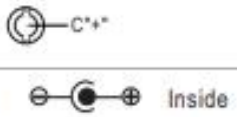


Minus output and input voltage curves



Functional Diagram

Standard plug: P1J

P1J	Pin Assignment
	

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 :

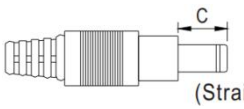
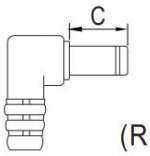
Example quick adapter accessory:

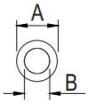
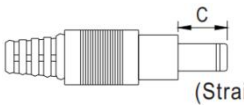
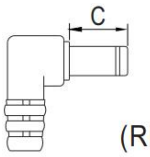
YINGJIAO®

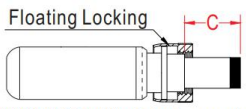
Switching Power Adapter

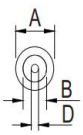
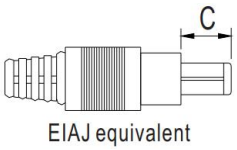
YS50 SERIES

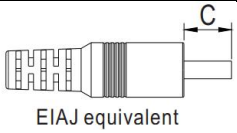
Optional DC plug: (Available in customized cable or quick adapter)

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	
		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	
  	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	

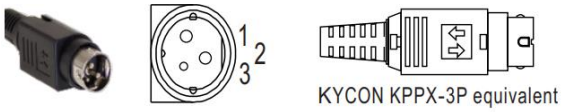
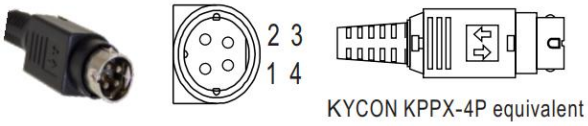
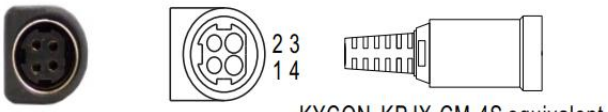
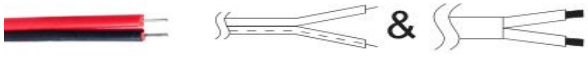
Min. Pin Style	Type No.	A	B	C	Available (Current rating: 5A max.)
		OD	ID	L	
  	P3A	2.35	0.7	11.0	
	P3B	4.0	1.7	11.0	
	P3C	4.75	1.7	11.0	

YINGJIAO®

Switching Power Adapter

YS50 SERIES

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**		Available (Current rating: 7.5A max.)
		PIN No.	**Output**	
 KYCON KPPX-4P equivalent	R7B	PIN No.	Output	
		1	+Vo	
		2	-Vo	
		3	-Vo	
		4	+Vo	
Lock Style	**Type No.**	**Pin Assignment**		None
		PIN No.	**Output**	
 KYCON KPJX-CM-4S equivalent	R7BF	PIN No.	Output	
		1	+Vo	
		2	-Vo	
		3	-Vo	
		4	+Vo	
Center Pin Style	**Type No.**	**Pin Assignment**		Available (Current rating: 7.5A max.)
		PIN No.	**Output**	
	R1B	PIN No.	Output	
		1	-Vo	
		2	-Vo	
		3	+Vo	
		4	-Vo	
		5	+Vo	
Center Pin Style	**Type No.**	**Pin Assignment**		None
		PIN No.	**Output**	
	by customer	1	+Vo	
		2	-Vo	