

## YS90 SERIES



Input: 85-264VAC 50/60Hz  
Output Voltage: 5V-48V DC  
Rated Power: 90W max

### Features

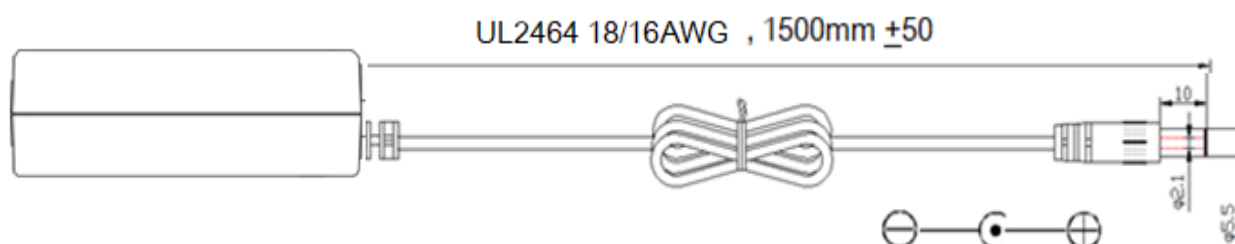
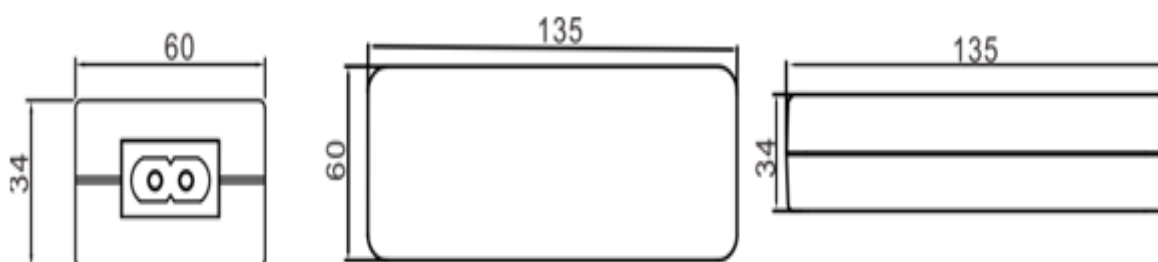
Univeral AC input/ Full range  
Energy efficiency level VI  
Leakage Current: < 0.25mA  
Extremely low leakage current  
Protection: Over load/Over voltage/Short circuit  
Withstand voltage : 3KV  
Life Warranty: 3 years



### Application

Consumer electronic devices  
Telecommunication devices  
Office facilities  
Industrial equipments

### ■ Dimensions and Installation

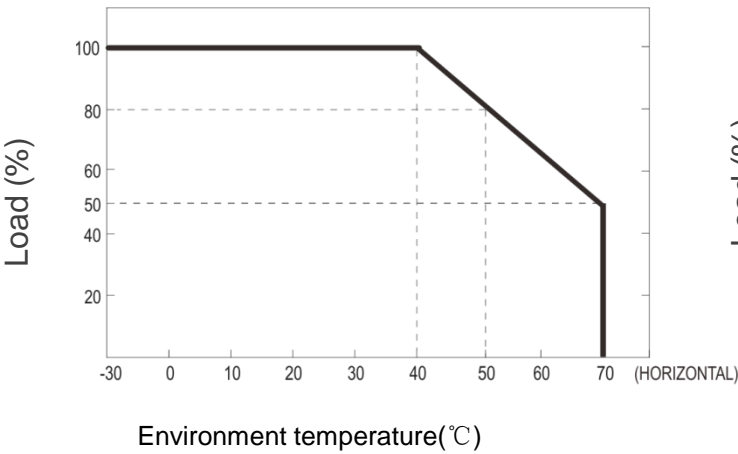


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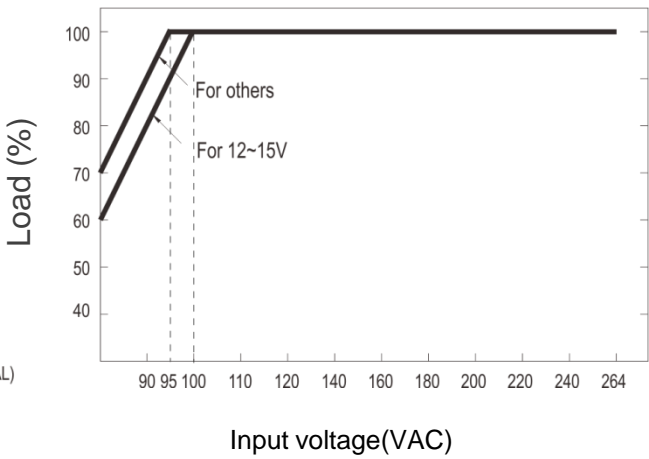
MODEL DETAIL SPEC.		YS90-1207000	YS90-1506000	YS90-2403750	YS90-3602500	YS90-4801875
INPUT	Input Voltage:	85-264VAC				
	Input Frequency:	50/60Hz				
	Inrush Current:	40A/115VAC 60A/230VAC				
	AC Current:	2.2A max.				
	Leakage Current:	< 0.25mA/240VAC				
	Efficiency:	89%	89%	89%	89%	89%
OUTPUT	DC Voltage:	12V	15V	24V	36V	48V
	Rated Current:	7.5A	6A	3.75A	2.5A	1.875A
	Rated Power:	90W	90W	90W	90W	90W
	Voltage Tolerance:	±5.0%	±5.0%	±5.0%	±5.0%	±5.0%
	Ripple and Noise:	150mVp-p	150mVp-p	250mVp-p	200mVp-p	200mVp-p
	Line Regulation:	±3%				
	Load Regulation:	±5%	±5%	±5%	±5%	±5%
	Setup, Rise, Hold Up time:	1000ms, 50ms /230VAC 1500ms, 50ms/115VAC at full load 30ms/230VAC , 20ms/115VAC at full load .				
ENVIRONMENTAL	Operating Temperature:	-30 ~ +70 (Refer to "Derating Curve")				
	Storage Temp:	-40℃ ~ 85℃				
	Storage Humidity:	10 ~ 95% RH				
	Working Humidity:	20 ~ 95% RH non-condensing				
PROTECTION	Over Load:	110-150% rated output power				
		Protection type: Hiccup mode, recovers automatically after fault condition is removed				
	Over Voltage:	105-135% rated output power				
		Protection type: Shut down o/p voltage, re-power on to recover				
	Over Temperature:	N/A				
SAFETY & EMC	Safety Regulations:	EN/BS62368-1 / EN/BS60335-1 approved				
	Withstand Voltage:	I/P-O/P:3KVAC				
	Isolation Resistance:	I/P-O/P:100M Ohms / 500VDC / 25℃/ 70% RH				
	EMC Emission:	Compliance to /EN55011 (CISPR11), Class B				
	EMC Immunity:	EN/EN61000-4-2,3,4,5,6,8,11				
OTHER	MTBF:	500Khrs min. MIL-HDBK-217F(25℃)				
	Size:	142*60*34mm				
	Weight:	400g / pcs				
	Packaging:	50PCS/CTN				

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Deduction curve and temperature

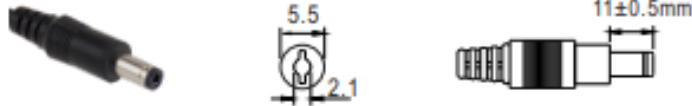
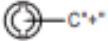



Minus output and input voltage curves



Functional Diagram

Standard plug: P1J

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



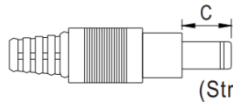
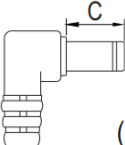

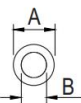
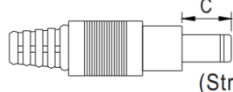
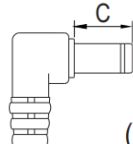


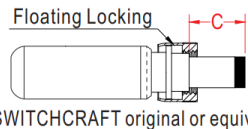

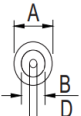
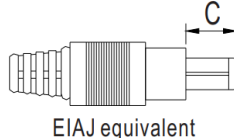


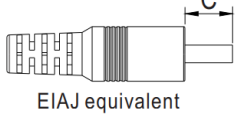
DC plug changeable through:

- (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:


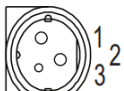
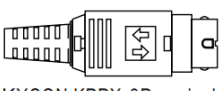


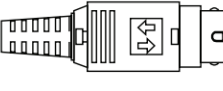


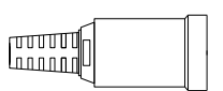




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Optional DC plug: (Available in customized cable or quick adapter)

Tuning Fork Style		Type No.	A	B	C	Quick Adapter Accessory
			OD	ID	L	
 	 (Straight)	D1I	5.5	2.1	9.5	Available (Current rating: 7.5A max.)
		D1L	5.5	2.5	9.5	
		D1M	5.5	2.1	11.0	
	 (Right-angled)	D1IR	5.5	2.5	9.5	
		D1JR	5.5	2.1	11.0	
		D1LR	5.5	2.5	9.5	
		D1MR	5.5	2.5	11.0	
Barrel Style		Type No.	A	B	C	Quick Adapter Accessory
			OD	ID	L	
 	 (Straight)	D2I	5.5	2.1	9.5	None
		D2J	5.5	2.1	11.0	
		D2L	5.5	2.5	9.5	
	 (Right-angled)	D2M	5.5	2.1	11.0	
		D2IR	5.5	2.5	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		Type No.	A	B	C	
			OD	ID	L	
   SWITCHCRAFT original or equivalent	D2S(S761K)	5.53	2.03	12.06	None	
	D2K(761K)	5.53	2.54	12.06		
	D2C(S760 K)	5.53	2.03	9.52		
	D2D(760K)	5.53	2.54	9.52		
Center Pin Style		Type No.	A	B	C	Available (Current rating: 7.5A max.)
			OD	ID	L	
   EIAJ equivalent	D4A	5.5	3.4	11.0	1.0	Available (Current rating: 7.5A max.)
	D4B	6.5	4.4	11.0	1.4	
	D4C	7.4	5.1	11.0	0.6	
Min. Pin Style		Type No.	A	B	C	Available (Current rating: 5A max.)
			OD	ID	L	
   EIAJ equivalent	D3A	2.35	0.7	11.0	Available (Current rating: 5A max.)	
	D3B	4.0	1.7	11.0		
	D3C	4.75	1.7	11.0		

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

Min.Din 3Pin with Lock (male)	Type No.	Pin Assignment		Quick Adapter Accessory
		PIN No.	Output	
   KYCON KPPX-3P equivalent	M6B	1	+Vo	Available (Current rating: 7.5A max.)
		2	-Vo	
		3	+Vo	
Min.Din 4Pin with Lock (male)	Type No.	Pin Assignment		
		PIN No.	Output	
   KYCON KPPX-4P equivalent	M7B	PIN No.	Output	Available (Current rating: 7.5A max.)
		1	+Vo	
		2	-Vo	
		3	-Vo	
		4	+Vo	
Min.Din 4Pin with Lock (female)	Type No.	Pin Assignment		
		PIN No.	Output	
   KYCON KPJX-CM-4S equivalent	M7BF	PIN No.	Output	None
		1	+Vo	
		2	-Vo	
		3	-Vo	
		4	+Vo	
DIN 5Pin (male)	Type No.	Pin Assignment		
		PIN No.	Output	
  	M1B	PIN No.	Output	Available (Current rating: 7.5A max.)
		1	-Vo	
		2	-Vo	
		3	+Vo	
		4	-Vo	
		5	+Vo	
Stripped and tinned leads	Type No.	Pin Assignment		
		PIN No.	Output	
	by customer	1	+Vo	None
		2	-Vo	