

YS50M SERIES



Input: 85-265VAC 50/60Hz
Output Voltage: 5V-48V DC
Rated Power: 50W max

Features

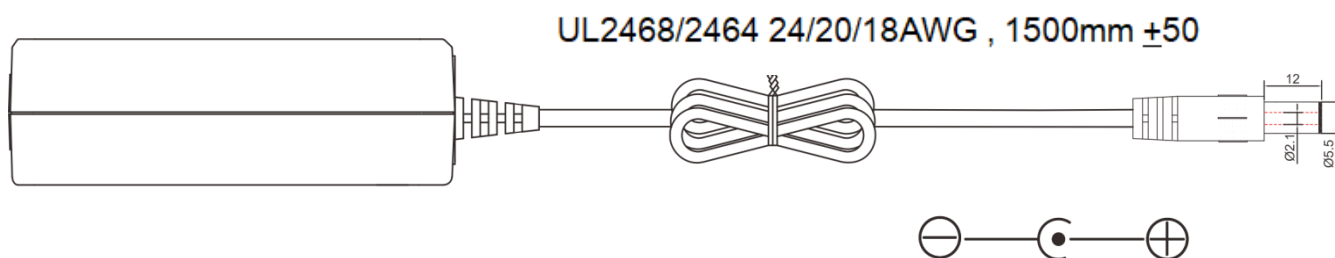
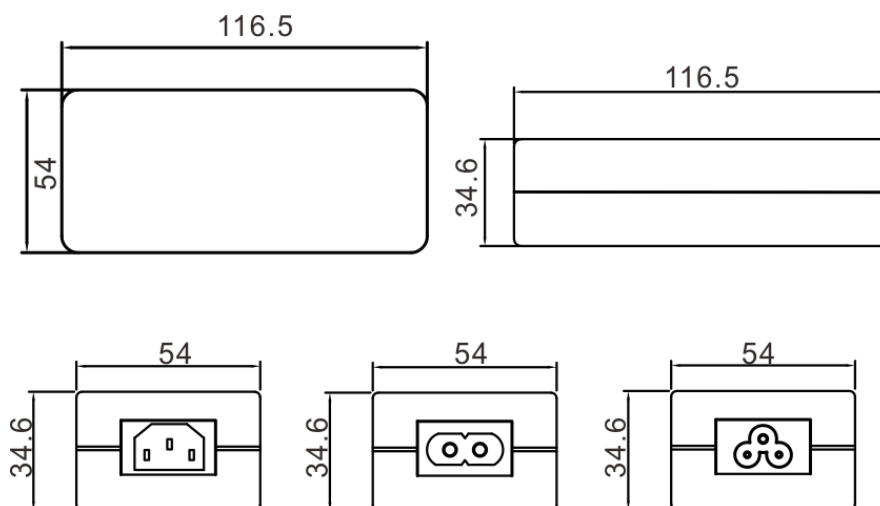
Universal AC input/ Full range
Energy efficiency level VI
Leakage Current: < 0.1mA
Extremely low leakage current
Protection: Over load/Over voltage/Short circuit
Withstand voltage : 4KV
Life Warranty: 3 years

Application

Mobile clinical workstation
Oral irrigator
Portable hemodialysis machine
Breath Machine
Medical computer monitor



■ Dimensions and Installation

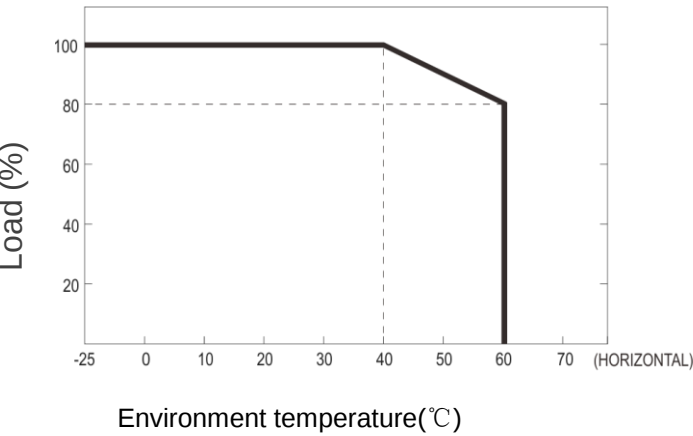


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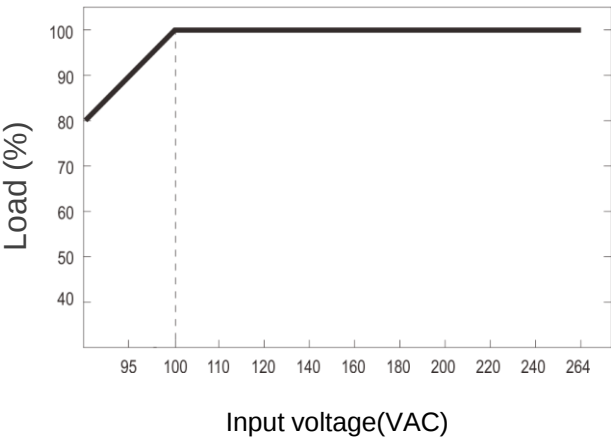
MODEL DETAIL SPEC.		YS50-0905000M	YS50-1204160M	YS50-1503300M	YS50-1902600M	YS50-2402080M	YS50-4801040M
INPUT	Input Voltage:	85-265VAC					
	Input Frequency:	50/60Hz					
	Inrush Current:	40A/115VAC 60A/230VAC					
	AC Current:	1.3A max.					
	Leakage Current:	< 0.1mA/240VAC					
	Efficiency:	88.85%	89%	89%	89%	89%	89%
OUTPUT	DC Voltage:	9V	12V	15V	19V	24V	48V
	Rated Current:	5A	4.16A	3.3A	2.6A	2.08A	1.04A
	Rated Power:	45W	50W	50W	50W	50W	50W
	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:	-25 ~ +60 (Refer to "Derating Curve")					
	Storage Temp:	-40℃ ~ 85℃					
	Storage Humidity:	10 ~ 95% RH					
	Working Humidity:	20 ~ 95% RH non-condensing					
PROTECTION	Over Load:	105% -150% rated output power					
		Protection type: Hiccup mode, recovers automatically after fault condition is removed					
	Over Voltage:	105% -130% rated output power					
		Protection type: Shut down o/p voltage, re-power on to recover					
	Over Temperature:	N/A					
SAFETY & EMC	Safety Regulations:	ANSI/AAMI ES60601-1, TUV IEC/EN60601-1 approved					
	Withstand Voltage:	I/P-O/P:4KVAC 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					

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Deduction curve and temperature



Minus output and input voltage curves



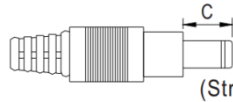
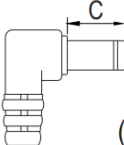
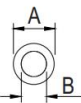
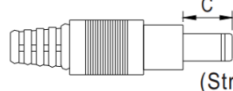
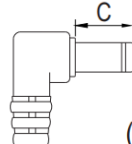
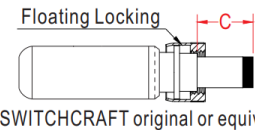
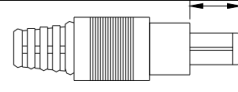
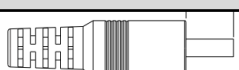
DC output plug

Standard plug: D1M

D1M		Pin Assignment	
			 C*+*
			Outside  Inside -V not connected to AC FG(standard) -V connected to AC FG(optional)

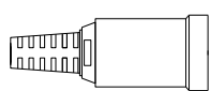
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Optional DC plug: (Available in customized cable or quick adapter)

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	
  	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	
	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		
	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	