

# YS5M SERIES

## 5W



### Features

- Energy efficiency level VI
- Leakage Current: < 0.1mA
- 3 Years Warranty
- Universal AC input/Full range
- No load power consumption < 0.1W
- Protections: Short Circuit /Over Load / Over Voltage
- -20~ +70°C wide range working temperature

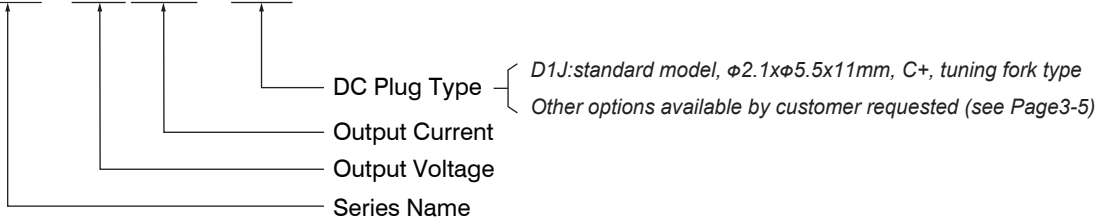
### Applications

- Blood pressure monitor
- Portable medical device
- Mobile clinical workstation
- Medical computer monitor



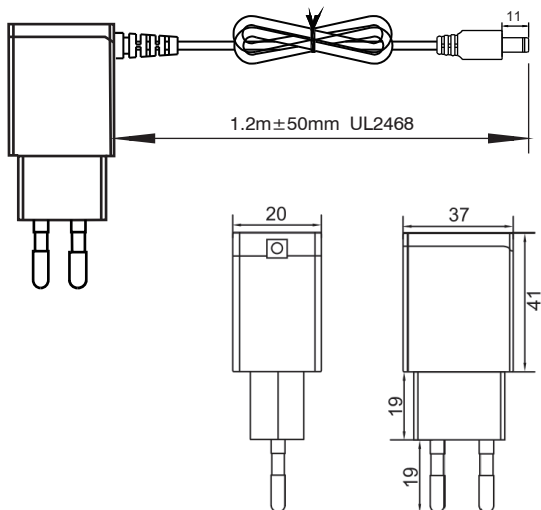
### Model Description

YS5M - XXXYYYY - D1J



### Dimensions and installation

(Unit: mm , tolerance:  $\pm 1$ mm)



Standard Cable	1.2m UL2468 (Option: UL2464, UL1185)
5 ~ 6V	22AWG
7.5 ~ 36V	24AWG



## Specification

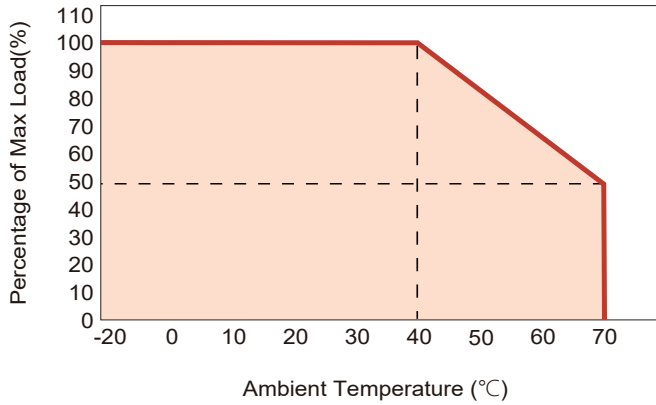
Model	Order P/N	YS5M-0501000-D1J	YS5M-0600830-D1J	YS5M-0900550-D1J	YS5M-1200410-D1J	YS5M-1500330-D1J	YS5M-2400210-D1J
	Safety Model No.	YS5M-0501000	YS5M-0600830	YS5M-0900550	YS5M-1200410	YS5M-1500330	YS5M-2400210
Output	DC Voltage	5V	6V	9V	12V	15V	24V
	Rated Current	1A	0.83A	0.55A	0.41A	0.33A	0.21A
	Rated Power	5W	5W	5W	5W	5W	5W
	Ripple & Noise(max.)	75mVp-p	75mVp-p	90mVp-p	120mVp-p	150mVp-p	240mVp-p
	Voltage Tolerance	±5%	±5%	±5%	±5%	±5%	±5%
	Line Regulation	±3%	±3%	±3%	±3%	±3%	±3%
	Load Regulation	±5%	±5%	±5%	±5%	±5%	±5%
	Setup,Rise,Hold up Time	1.0s,30ms,80ms/230VAC(at full load)			2.0s,30ms,12ms/115VAC(at full load)		
Input	Rated Voltage Range	100-240VAC					
	Voltage Range	90-264VAC					
	Frequency Range	50/60Hz					
	AC Current	0.2A/115VAC		0.15A/230VAC			
	Inrush Current	Cold Start 30A/200us at 230VAC 50Hz			Cold Start 15A/200us at 115VAC 50Hz		
	Leakage Current	<0.1mA/230VAC					
	Efficiency	75%	79%	79%	78.5%	80%	80%
	No Load Power Consumption	<0.1W					
Protection	Over Load	105~150% Hiccup mode, recovers automatically after fault condition is removed.					
	Short Circuit	Shut down o/p voltage, re-power on to recover.					
	Over Voltage	105~130% Shut down o/p voltage, re-power on to recover.					
Ambient	Working TEMP.	-20 ~ +70 C (Please refer to "Derating Curve"section)					
	Working Humidity	20 ~ 95%RH Non-condensing					
	Storage TEMP. Humidity	-40 ~ +85 C, 10 ~ 95%RH Non-condensing					
	TEMP. Coefficient	±0.03%/(0 ~ 40 C)					
	Vibration	10 ~ 500Hz, 5G 12min./1cycle, period for 72min. each along X, Y, Z axes					
Safety	Safety Standards	EN60601-1					
	Withstand Voltage	I/P-O/P: 4KVAC/1min					
	Isolation Resistance	I/P-O/P:100M Ohms / 500VDC / 25 C / 70% RH					
EMC	EMC Emission	Parameter	Standard			Test Level	
		Conducted	EN55032(CISPR32)			CLASS B	
		Radiated	EN55032(CISPR32)			CLASS B	
		Harmonic Current	EN61000-3-2			CLASS B	
		Voltage flicker	EN61000-3-3			CLASS B	
	EMC Immunity	Parameter	Standard			Test Level	
		ESD	EN61000-4-2			Level 3, 8KV air, criteria A	
		Radiated Susceptibility	EN61000-4-3			Level 3, criteria A	
		EFT/Burest	EN61000-4-4			Level 3, criteria A	
		Surge	EN61000-4-5			Level 4, 2KV/L-N, criteria A	
		Conducted	EN61000-4-6			Level 3, criteria A	
		Magnetic Field	EN61000-4-8			Level 4, criteria A	
		Voltage Dips and interruptions	EN61000-4-11			> 95% dip 0.5 periods, 30% dip 25 periods, >95% interruptions 250 periods	
Others	Packing	70g/pcs; 40.5 x 26 x 30 cm; 100pcs/carton					
	Dimension (LxWxH)	37 x 20 x 41 mm					
	Plug and Cable	See page 3~5; Other type available by customer requested					
	MTBF	568.8Khrs min. MIL-HDBK-217F(25 C)					
Note	<ol style="list-style-type: none"> <li>1. Tolerance: includes set up tolerance, line regulation and load regulation.</li> <li>2. Ripple &amp; noise are measured at 20MHz of bandwidth by using a 12" twisted pair-wire terminated with a 0.1uf &amp; 47uf parallel capacitor.</li> <li>3.Line regulation is measured from low line to high line at rated load.</li> <li>4.Load regulation is measured from 0% to 100% rated load.</li> <li>5. All parameters NOT specially mentioned are measured at nominal voltage input, rated load and 25 C of ambient temperature.</li> <li>6. De-rating may be needed under low input voltages. Please refer to "Static Characteristic" sections for details.</li> <li>7. The power supply is considered as a component that will be operated in combination with final equipment.Since EMC performance will be affected by the complete installation, the final equipment manufacturers must re-qualify EMC Directive on the complete installation again.</li> </ol>						

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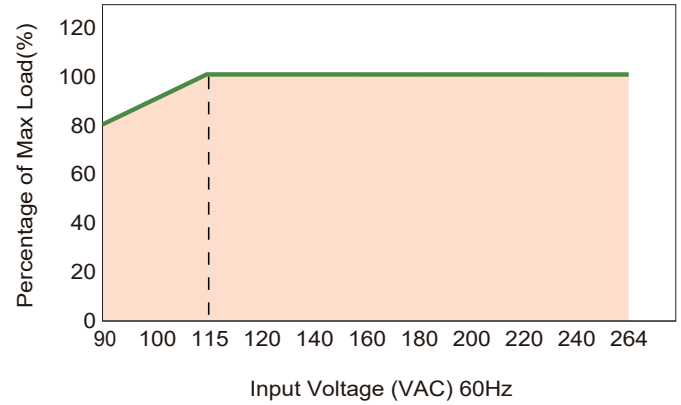
## 5W

### Feature Curves

#### 1. Derating Curve

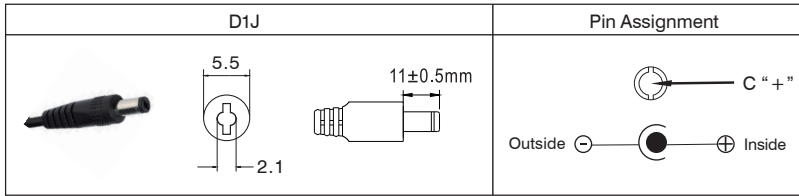


#### 2. Static Characteristics



### DC Output Plug (Option)

Standard Model : D1J



Optional DC plug:

(Unit: mm , tolerance: ±0.5mm)

Tuning Fork Style	Straight		
	A	B	C
Type No.	OD	ID	L
	D1I	5.5	2.1
D1L	5.5	2.5	9.5
D1M	5.5	2.5	11.0

Tuning Fork Style	Right-angled		
	A	B	C
Type No.	OD	ID	L
	D1IR	5.5	2.1
D1JR	5.5	2.1	11.0
D1LR	5.5	2.5	9.5
D1MR	5.5	2.5	11.0

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### DC Output Plug (Option)

Barrel Style			
	A	B	C
Type No.	OD	ID	L
D2I	5.5	2.1	9.5
D2J	5.5	2.1	11.0
D2L	5.5	2.5	9.5
D2M	5.5	2.5	11.0

Barrel Style			
	A	B	C
Type No.	OD	ID	L
D2IR	5.5	2.1	9.5
D2JR	5.5	2.1	11.0
D2LR	5.5	2.5	9.5
D2MR	5.5	2.5	11.0

Tuning Fork Style			
	A	B	C
Type No.	OD	ID	L
D3A	2.35	0.7	11.0
D3B	4.0	1.7	11.0
D3C	4.75	1.7	11.0

Center Pin Style				
	A	B	C	D
Type No.	OD	ID	L	Center Pin
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

Barrel Style		
	Pin Assignment	
Type No.	PIN No.	Output
M1B	1	-Vo
	2	-Vo
	3	+Vo
	4	-Vo
	5	+Vo

MIN.Din 3Pin with Lock(male)		
	Pin Assignment	
Type No.	PIN No.	Output
M6B	1	+Vo
	2	-Vo
	3	+Vo

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### DC Output Plug (Option)

MIN.Din 4Pin with Lock(male)			
	<p style="text-align: center;">KYCON KPPX-4P equivalent</p>		
Type No.	Pin Assignment		
	PIN No.	Output	
M7B	1	+Vo	
	2	-Vo	
	3	-Vo	
	4	+Vo	

MIN.Din 4Pin with Lock(female)			
	<p style="text-align: center;">KYCON KPJX-CM-4S equivalent</p>		
Type No.	Pin Assignment		
	PIN No.	Output	
M7BF	1	+Vo	
	2	-Vo	
	3	-Vo	
	4	+Vo	

Type-C			
	<p style="text-align: center;">Length of Land L1 by request</p>		
Type No.	A	B	C
	OD	ID	L
C1	2.4	1.3	8.25

Stripped and tinned leads		
	<p style="text-align: center;">Length of Land L1 by request</p> <p style="text-align: center;">YJ's standard length, L: 30 mm, L1: 5 mm</p> <p style="text-align: center;">NOTE: The wire color is for reference only, please refer to the actual product</p>	
Type No.	Pin Assignment	
	PIN No.	Output
by customer	1	+Vo
	2	-Vo