

YS18-U SERIES

24W



Features

- Energy efficiency level VI
- Class II Power Supply
- 3 Years Warranty
- Universal AC input/Full range
- No load power consumption < 0.1W
- Protections: Short Circuit /Over Load / Over Voltage
- -20~+60°C wide range working temperature

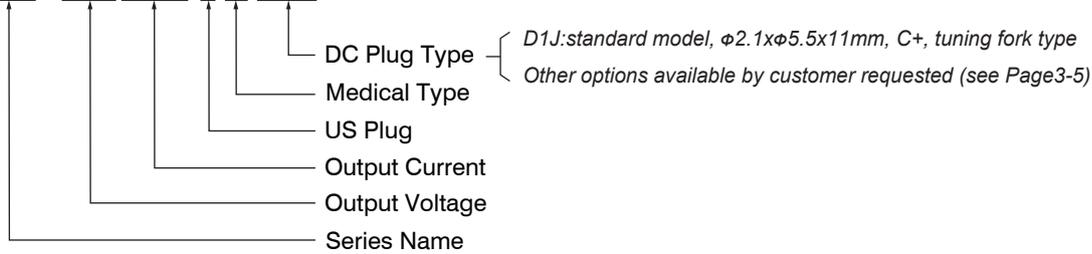
Applications

- Blood glucose meter
- Blood pressure meter
- Nebulizer/Inhaler
- Portable medical device



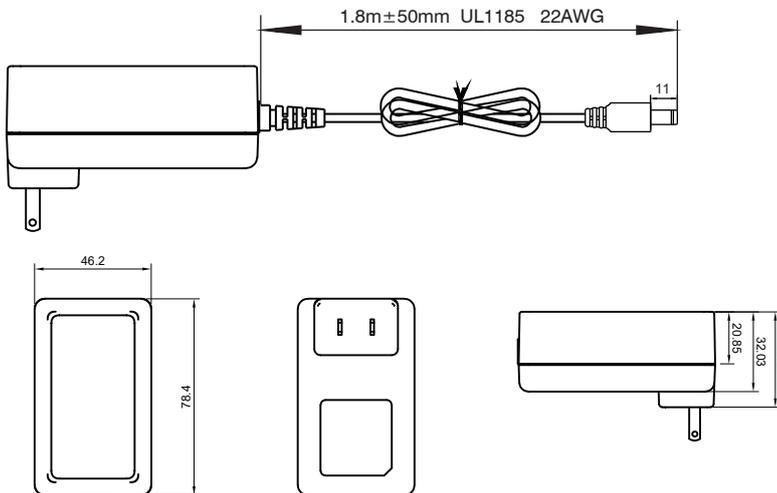
Model Description

YS18 - XXXYYYY U M-D1J



Dimensions and installation

(Unit: mm , tolerance: ± 1 mm)



Standard Cable	1.2m UL2468 (Option: UL2464, UL1185)
12V	20AWG
15 - 24V	22AWG
36 - 48V	24AWG



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Specification

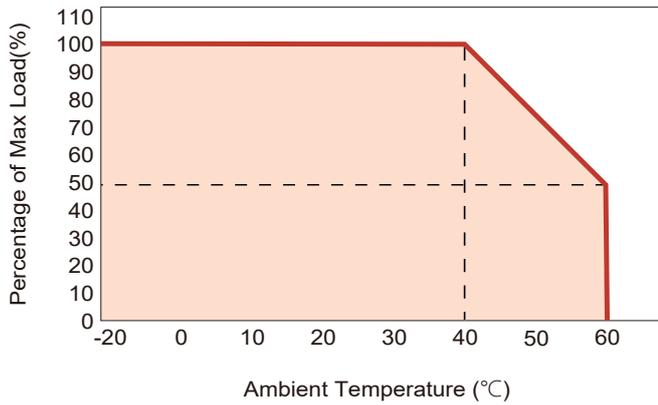
Model	Order P/N	YS18-1202000UM-D1J	YS18-1501600UM-D1J	YS18-2401000UM-D1J	YS18-3600660UM-D1J	YS18-4800500UM-D1J
	Safety Model No.	YS18-1202000UM	YS18-1501600UM	YS18-2401000UM	YS18-3600660UM	YS18-4800500UM
Output	DC Voltage	12V	15V	24V	36V	48V
	Rated Current	2A	1.6A	1A	0.66A	0.5A
	Rated Power	24W	24W	24W	24W	24W
	Ripple & Noise(max.)	100mVp-p	150mVp-p	200mVp-p	240mVp-p	360mVp-p
	Voltage Tolerance	±5%	±5%	±5%	±5%	±5%
	Line Regulation	±3%	±3%	±3%	±3%	±3%
	Load Regulation	±5%	±5%	±5%	±5%	±5%
	Setup,Rise,Hold up Time	1.2s,25ms,50ms/230VAC(at full load)			2.5s,25ms,12ms/115VAC(at full load)	
Input	Rated Voltage Range	100-240VAC				
	Voltage Range	90-264VAC				
	Frequency Range	50/60Hz				
	AC Current	0.7A/115VAC		0.55A/230VAC		
	Inrush Current	Cold Start 120A/200us at 230VAC 50Hz			Cold Start 45A/200us at 115VAC 50Hz	
	Leakage Current	<0.1mA/230VAC				
	Efficiency	86.5%	87.5%	88%	88.5%	89%
	No Load Power Consumption	<0.1W				
Protection	Over Load	105~150% Hiccup mode, recovers automatically after fault condition is removed.				
	Short Circuit	Hiccup mode, recovers automatically after fault condition is removed.				
	Over Voltage	120~180% Shut down o/p voltage, re-power on to recover.				
Ambient	Working TEMP.	-20 ~ +60 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	ANSI/AAMI ES60601-1				
	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	FCC Part15(CISPR22)		CLASS B	
		Radiated	FCC Part15(CISPR22)		CLASS B	
Others	Packing	130g/pcs; 44 x 41 x 21.5 cm; 100pcs/carton				
	Dimension (LxWxH)	78.4 x 46.2 x 32.03 mm				
	Plug and Cable	See page 3~5; Other type available by customer requested				
	MTBF	192.5Khrs min. MIL-HDBK-217F(25 C)				
Note	<ol style="list-style-type: none"> 1. Tolerance: includes set up tolerance, line regulation and load regulation. 2. Ripple & noise are measured at 20MHz of bandwidth by using a 12" twisted pair-wire terminated with a 0.1uf & 47uf parallel capacitor. 3.Line regulation is measured from low line to high line at rated load. 4.Load regulation is measured from 0% to 100% rated load. 5. All parameters NOT specially mentioned are measured at nominal voltage input, rated load and 25 C of ambient temperature. 6. De-rating may be needed under low input voltages. Please refer to "Static Characteristic" sections for details. 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. 					

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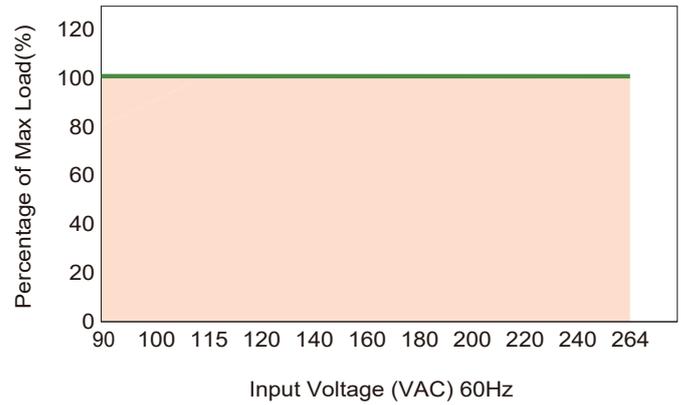
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Feature Curves

1. Derating Curve

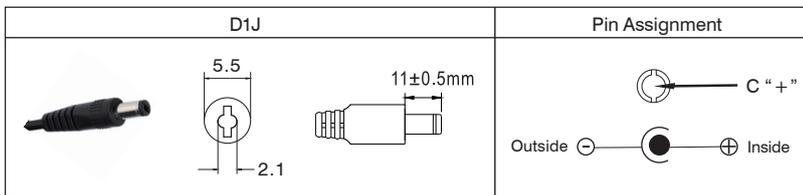


2. Static Characteristics



DC Output Plug (Option)

Standard Model : D1J



Optional DC plug:

(Unit: mm , tolerance: ±0.5mm)

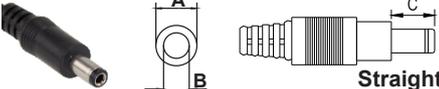
Tuning Fork Style	Straight		
	A	B	C
Type No.	OD	ID	L
	D1I	5.5	2.1
D1L	5.5	2.5	9.5
D1M	5.5	2.5	11.0

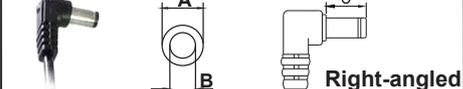
Tuning Fork Style	Right-angled		
	A	B	C
Type No.	OD	ID	L
	D1IR	5.5	2.1
D1JR	5.5	2.1	11.0
D1LR	5.5	2.5	9.5
D1MR	5.5	2.5	11.0

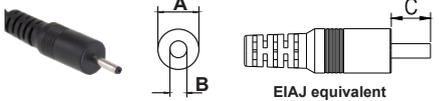
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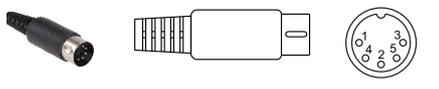
DC Output Plug (Option)

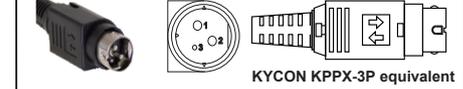
Barrel Style			
	A	B	C
Type No.	OD	ID	L
D2I	5.5	2.1	9.5
D2J	5.5	2.1	11.0
D2L	5.5	2.5	9.5
D2M	5.5	2.5	11.0

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>YJ's standard length, L: 30 mm, L1: 5 mm</p> <p>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