YINGJIAO

YS80-Class II SERIES
90W

Features

- Energy efficiency level VI
- Class II Power Supply
- 3 Years Warranty
- Universal AC input/Full range
- No load power consumption < 0.21W
- Protections: Short Circuit /Over Load / Over Voltage
- -30～+70℃wide range working temperature

Applications

- Office Facilities
- Industrial Equipments
- Consumer Electronic Devices
- Telecommunication Devices

c UL us LISTED RoHS VI FC

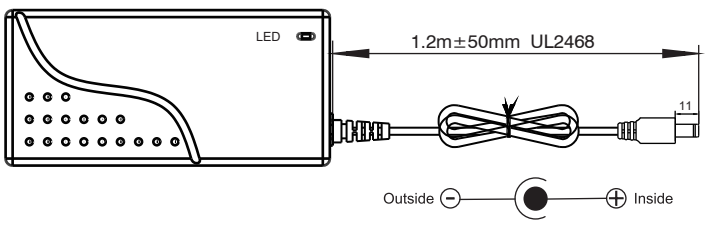
Model Description

YS80 - XXXYYYY - □ - D1J

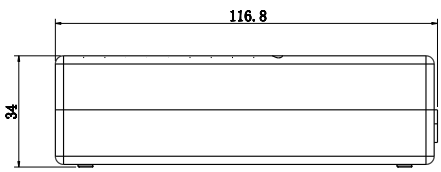
- D1J: DC Plug Type — *D1J:standard model, Φ2.1xΦ5.5x11mm, C+, tuning fork type*; *Other options available by customer requested (see Page3-5)*
- □: AC Plug Type: C8
- XXX: Output Current
- YYYY: Output Voltage
- YS80: Series Name

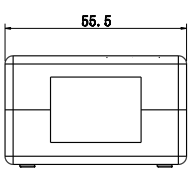
Dimensions and installation

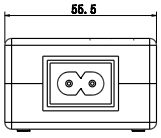
(Unit: mm , tolerance: ±1mm)



Standard Cable	1.2m UL2468 (Option: UL2464, UL1185)
12 ~ 24V	18AWG
36V	20AWG
48V	22AWG







C8

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Specification

Model	**Order P/N**	**YS80-1207500 -C8-D1J**	**YS80-1506000 -C8-D1J**	**YS80-2403750 -C8-D1J**	**YS80-3602500 -C8-D1J**
	Safety Model No.	**YS80-1207500**	**YS80-1506000**	**YS80-2403750**	**YS80-3602500**
Output	**DC Voltage**	12V	15V	24V	36V
	Rated Current	7.5A	6A	3.75A	2.5A
	Rated Power	90W	90W	90W	90W
	Ripple & Noise(max.)	100mVp-p	150mVp-p	200mVp-p	300mVp-p
	Voltage Tolerance	±5%	±5%	±5%	±5%
	Line Regulation	±3%	±3%	±3%	±3%
	Load Regulation	±5%	±5%	±5%	±5%
	Setup,Rise,Hold up Time	1.0s,40ms,30ms/230VAC(at full load)		1.5s,45ms,20ms/115VAC(at full load)	
Input	**Rated Voltage Range**	100-240VAC			
	Voltage Range	90-264VAC			
	Frequency Range	50/60Hz			
	AC Current	2.3A/115VAC	1.5A/230VAC		
	Inrush Current	Cold Start 60A/200us at 230VAC 50Hz		Cold Start 40A/200us at 115VAC 50Hz	
	Leakage Current	<0.25mA/230VAC			
	Efficiency	89%	89.5%	89%	91.5%
	No Load Power Consumption	<0.21W			
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	120~180%			
		Shut down o/p voltage, re-power on to recover.			
Ambient	**Working TEMP.**	-30 ~ +70℃(Please refer to “Derating Curve”section)			
	Working Humidity	20 ~ 95%RH Non-condensing			
	Storage TEMP. Humidity	-40 ~ +85℃,10 ~ 95%RH Non-condensing			
	TEMP. Coefficient	±0.03%/(0 ~ 40℃)			
	Vibration	10 ~ 500Hz, 5G 12min./1cycle, period for 72min. each along X, Y, Z axes			
Safety	**Safety Standards**	UL62368-1, IEC61558, KC K60950-1 approved			
	Withstand Voltage	I/P-O/P: 3KVAC/1min			
	Isolation Resistance	I/P-O/P:100M Ohms / 500VDC / 25℃/ 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**	395g/pcs; 34 x 31 x 37 cm; 50pcs/carton			
	Dimension (LxWxH)	116.8 x 34 x 55.5 mm			
	Plug and Cable	See page 3~5; Other type available by customer requested			
	MTBF	415.1Khrs min. MIL-HDBK-217F(25℃)			
Note	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℃ 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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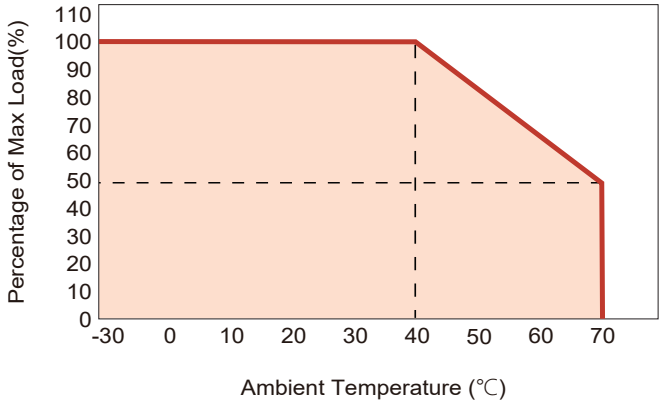
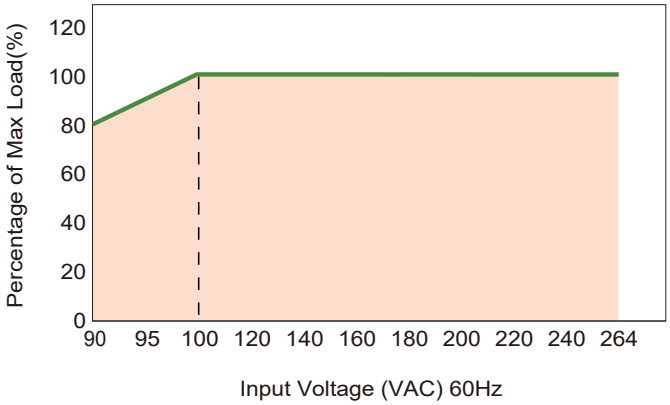
Feature Curves

1. Derating Curve

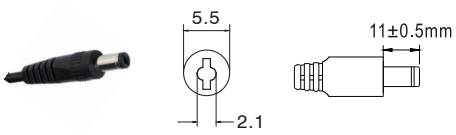
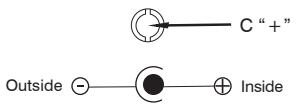


2. Static Characteristics

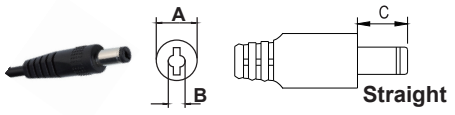


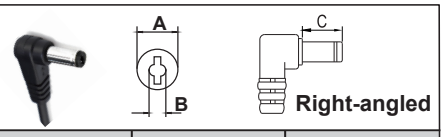
DC Output Plug (Option)

Standard Model : D1J

D1J	Pin Assignment
	

Optional DC plug:
(Unit: mm , tolerance: ±0.5mm)

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

Tuning Fork Style			
Type No.	A	B	C
	OD	ID	L
D1IR	5.5	2.1	9.5
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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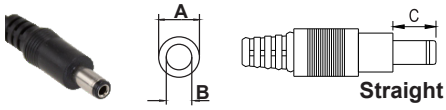
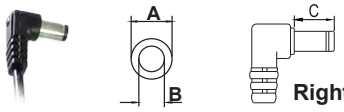
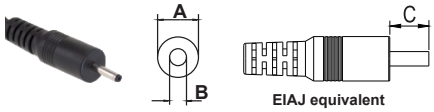
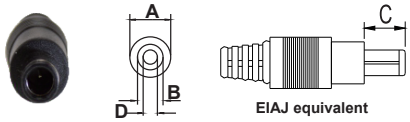
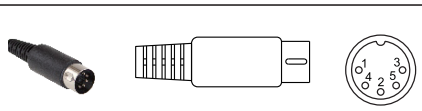
DC Output Plug (Option)

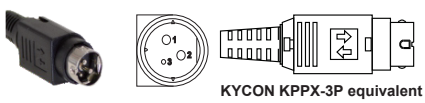
Barrel Style	 Straight		
Type No.	A	B	C
	OD	ID	L
D2I	5.5	2.1	9.5
D2J	5.5	2.1	11.0
D2L	5.5	2.5	9.5
D2M	5.5	2.5	11.0

Barrel Style	 Right-angled		
Type No.	A	B	C
	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	 EIAJ equivalent		
Type No.	A	B	C
	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	 EIAJ equivalent			
Type No.	A	B	C	D
	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		
Type No.	Pin Assignment	
	PIN No.	Output
M1B	1	-Vo
	2	-Vo
	3	+Vo
	4	-Vo
	5	+Vo

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

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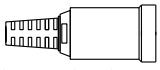
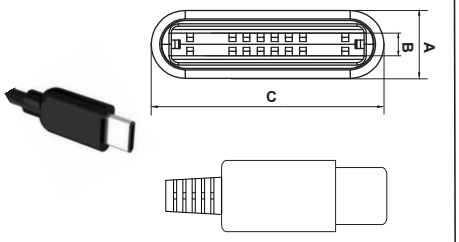
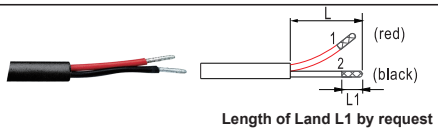
DC Output Plug (Option)

MIN.Din 4Pin with Lock(male)	 KYCON KPPX-4P equivalent	
Type No.	Pin Assignment	
	PIN No.	Output
M7B	1	+Vo
	2	-Vo
	3	-Vo
	4	+Vo

MIN.Din 4Pin with Lock(female)	   KYCON KPJX-CM-4S equivalent	
Type No.	Pin Assignment	
	PIN No.	Output
M7BF	1	+Vo
	2	-Vo
	3	-Vo
	4	+Vo

Type-C			
Type No.	A	B	C
	OD	ID	L
C1	2.4	1.3	8.25

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

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