

YS12B SERIES

12W



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~+70°C wide range working temperature

Applications

- Digital Equipment
- Industrial Equipments
- Consumer Electronic Devices
- Telecommunication Devices

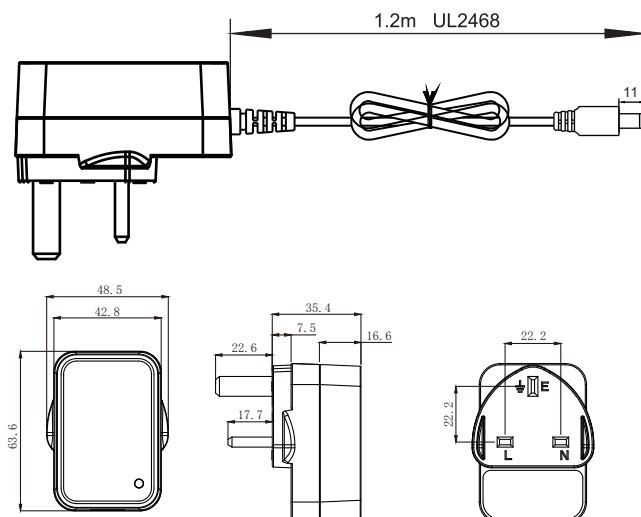


Model Description

YS12 -XXXXYYY B - D1J

- DC Plug Type — *D1J: standard model, $\phi 2.1 \times \phi 5.5 \times 11\text{mm}$, C+, tuning fork type*
- British Plug — *Other options available by customer requested (see Page3-5)*
- Output Current
- Output Voltage
- Series Name

Dimensions and installation



Standard Cable	1.2m UL2468 (Option: UL2464, UL1185)
6V	20AWG
7.5 ~ 12V	22AWG
15 ~ 36V	24AWG

Outside \ominus \oplus Inside

Specification

Model	Order P/N	YS12-0602000B-D1J	YS12-0751500B-D1J	YS12-0901300B-D1J	YS12-1201000B-D1J	YS12-1500800B-D1J	YS12-2400500B-D1J	YS12-3600350B-D1J	
	Safety Model No.	YS12-0602000B	YS12-0751500B	YS12-0901300B	YS12-1201000B	YS12-1500800B	YS12-2400500B	YS12-3600350B	
Output	DC Voltage	6V	7.5V	9V	12V	15V	24V	36V	
	Rated Current	2A	1.5A	1.3A	1A	0.8A	0.5A	0.35A	
	Rated Power	12W	11.25W	11.7W	12W	12W	12W	12.6W	
	Ripple & Noise(max.)	75mVp-p	90mVp-p	120mVp-p	150mVp-p	240mVp-p	300mVp-p	360mVp-p	
	Voltage Tolerance	±5%	±5%	±5%	±5%	±5%	±5%	±5%	
	Line Regulation	±3%	±3%	±3%	±3%	±3%	±3%	±3%	
	Load Regulation	±5%	±5%	±5%	±5%	±5%	±5%	±5%	
	Setup,Rise,Hold up Time	1.0s,30ms,25ms/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 50A/200us at 230VAC 50Hz				Cold Start 30A/200us at 115VAC 50Hz			
	Leakage Current	<0.25mA/230VAC							
	Efficiency	83%	83%	83.5%	83.5%	84%	84%	84.5%	
	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	120~180% 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	BS EN IEC 62368-1							
	Withstand Voltage	I/P-O/P: 3KVAC/1min							
	Isolation Resistance	I/P-O/P:100M Ohms / 500VDC / 25 C / 70% RH							
EMC	EMC Emission	Parameter	Standard				Test Level		
		Conducted	BS EN55032(CISPR32)				CLASS B		
		Radiated	BS EN55032(CISPR32)				CLASS B		
		Harmonic Current	BS EN61000-3-2				CLASS B		
		Voltage flicker	BS EN61000-3-3				CLASS B		
	EMC Immunity	Parameter	Standard				Test Level		
		ESD	BS EN61000-4-2				Level 3, 8KV air, criteria A		
		Radiated Susceptibility	BS EN61000-4-3				Level 3, criteria A		
		EFT/Burest	BS EN61000-4-4				Level 3, criteria A		
		Surge	BS EN61000-4-5				Level 4, 2KV/L-N, criteria A		
Conducted		BS EN61000-4-6				Level 3, criteria A			
Magnetic Field		BS EN61000-4-8				Level 4, criteria A			
Voltage Dips and interruptions	BS EN61000-4-11				> 95% dip 0.5 periods, 30% dip 25 periods, >95% interruptions 250 periods				
Others	Packing	190g/pcs; 62 x 48 x 38 cm; 100pcs/carton							
	Dimension (LxWxH)	48.5 x 63.6 x 35.4 mm							
	Plug and Cable	See page 3~5; Other type available by customer requested							
	MTBF	265.8Khrs min. MIL-HDBK-217F(25 C)							
Note	<p>1. Tolerance: includes set up tolerance, line regulation and load regulation.</p> <p>2. Ripple & noise are measured at 20MHz of bandwidth by using a 12" twisted pair-wire terminated with a 0.1uf & 47uf parallel capacitor.</p> <p>3.Line regulation is measured from low line to high line at rated load.</p> <p>4.Load regulation is measured from 0% to 100% rated load.</p> <p>5. All parameters NOT specially mentioned are measured at nominal voltage input, rated load and 25 C of ambient temperature.</p> <p>6. De-rating may be needed under low input voltages. Please refer to "Static Characteristic" sections for details.</p> <p>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.</p>								

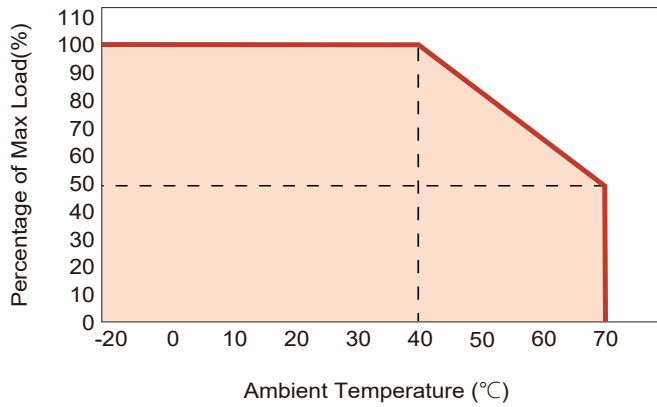
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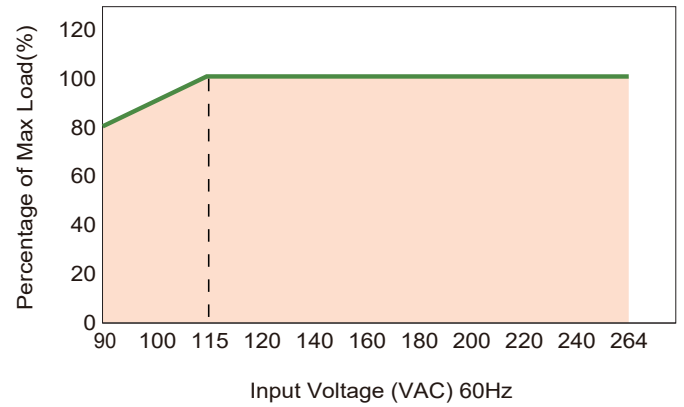
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Feature Curves

1. Derating Curve

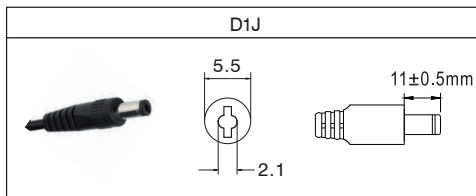
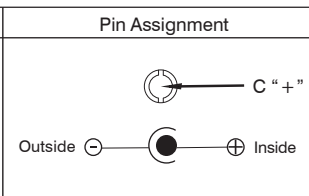


2. Static Characteristics



DC Output Plug (Option)

Standard Model : D1J

D1J	Pin Assignment
	

Optional DC plug:

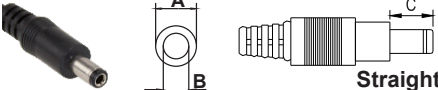
Tuning Fork Style	Straight		
	A	B	C
Type No.	OD	ID	L
	D1I	5.5	2.1
D1L	5.5	2.5	9.5
D1M	5.5	2.5	11.0


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

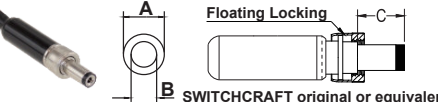
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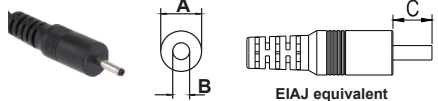
DC Output Plug (Option)

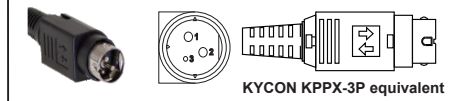
Barrel Style			
	A	B	C
Type No.	OD	ID	L
D2I	5.5	2.1	9.5
D2J	5.5	2.1	11.0
D2L	5.5	2.5	9.5
D2M	5.5	2.5	11.0

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

Lock Style			
	A	B	C
Type No.	OD	ID	L
D2S(S761K)	5.53	2.03	12.06
D2K(761K)	5.53	2.54	12.06
D2C(S760K)	5.53	2.03	9.52
D2D(760K)	5.53	2.54	9.52

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

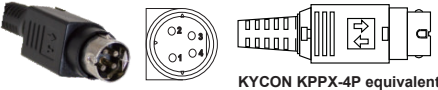
Tuning Fork Style			
	A	B	C
Type No.	OD	ID	L
D3A	2.35	0.7	11.0
D3B	4.0	1.7	11.0
D3C	4.75	1.7	11.0


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

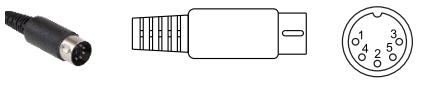
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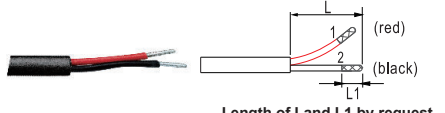
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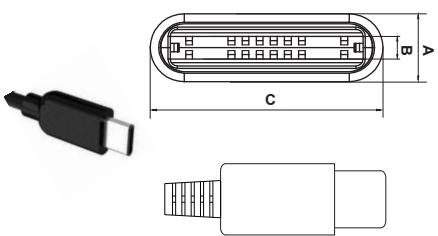
DC Output Plug (Option)

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

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

Stripped and tinned leads	 <p>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</p>	
	Pin Assignment	
Type No.	PIN No.	Output
	1	+Vo
by customer	2	-Vo

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