

YSC20 SERIES
18W



Features

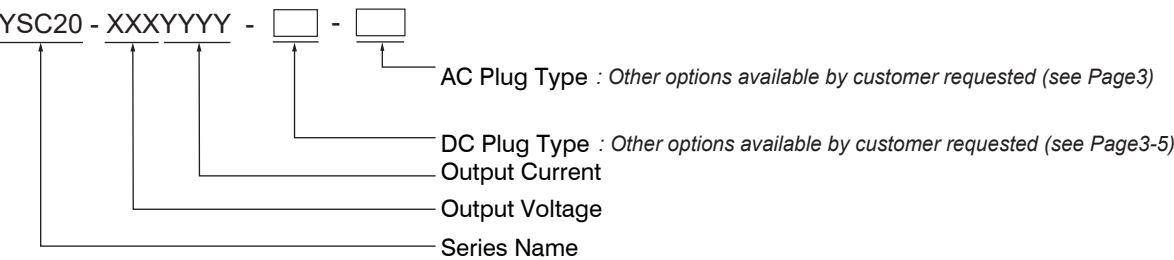
- IP67
- Energy efficiency level VI
- Class II Power Supply
- 3 Years Warranty
- Universal AC input/Full range
- No load power consumption < 0.21W
- Protections: Short Circuit /Over Load / Over Voltage
- -20~+70℃wide range working temperature

Applications

- Office Facilities
- Industrial Equipments
- Consumer Electronic Devices
- Telecommunication Devices
- Security Alarm System

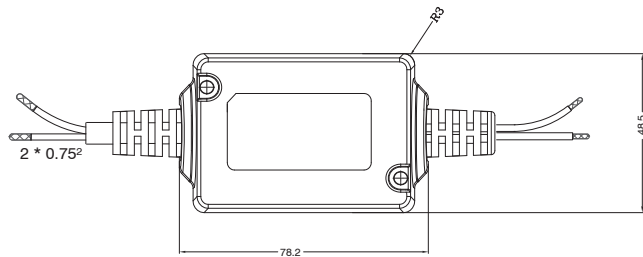
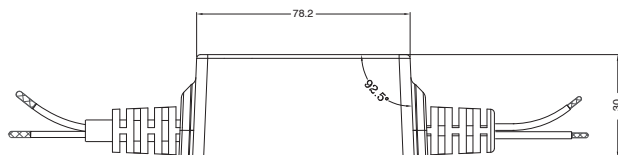


Model Description



Dimensions and installation

Standard Model



Standard AC Cable	200mm PVC 2*0.5mm²
Standard DC Cable	200mm UL2468
9 ~ 12V	20AWG
15 ~ 24V	22AWG
36V	24AWG

Specification

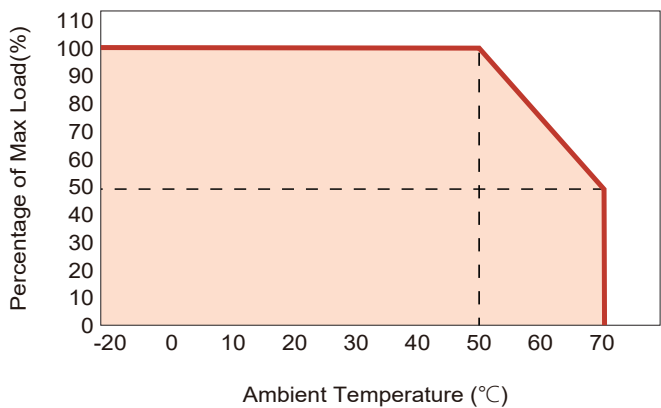
Model	Order P/N	YSC20-1201500 - □ - □		
	Safety Model No.	YSC20-1201500		
Output	DC Voltage	12V		
	Rated Current	1.5A		
	Rated Power	18W		
	Ripple & Noise(max.)	100mVp-p		
	Voltage Tolerance	±5%		
	Line Regulation	±3%		
	Load Regulation	±5%		
	Setup,Rise,Hold up Time	1.0s,40ms,80ms/230VAC(at full load)		1.0s,40ms,12ms/115VAC(at full load)
Input	Rated Voltage Range	100-240VAC		
	Voltage Range	85-265VAC		
	Frequency Range	50/60Hz		
	AC Current	0.6A/115VAC		0.5A/230VAC
	Inrush Current	Cold Start 60A/200us at 230VAC 50Hz		Cold Start 40A/200us at 115VAC 50Hz
	Leakage Current	<0.25mA/230VAC		
	Efficiency	86.5%		
	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.	-20 ~ +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	EN 60335-1, EN 62368-1, BS EN 60335, FCC Part 15, ANSI C63.4, UL62368		
	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	140g/pcs; 40.5 x 26 x 30 cm; 100pcs/carton		
	Dimension (LxWxH)	78.2 x 48.5 x 30 mm		
	Plug and Cable	See page 3~5; Other type available by customer requested		
	MTBF	544.6Khrs 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.			

File last modification time: 2025-2-25

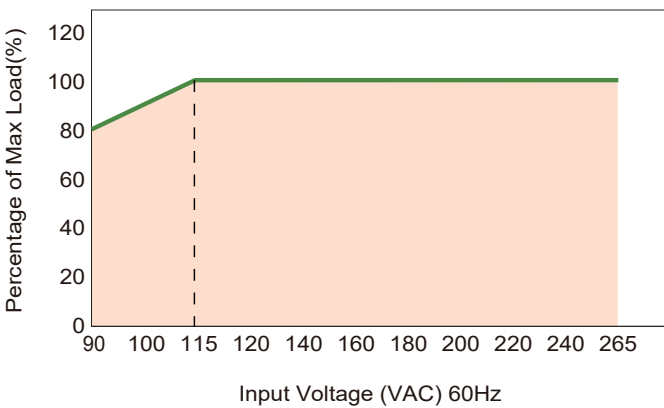
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Feature Curves

1. Derating Curve



2. Static Characteristics



Input Plug Type

Standard Model : by customer

by customer	Pin Assignment
 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

Custom-made Model : EU/US/AU/UK

EU	US	AU	UK

DC Output Plug (Option)

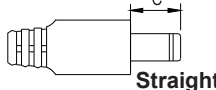
Standard Model : by customer

by customer	Pin Assignment
 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

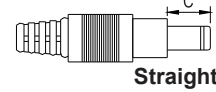
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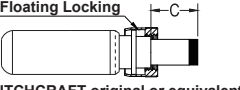
DC Output Plug (Option)

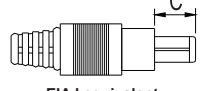
Tuning Fork Style			
			Straight
Type No.	A	B	C
	OD	ID	L
D1I	5.5	2.1	9.5
D1J	5.5	2.1	11.0
D1L	5.5	2.5	9.5
D1M	5.5	2.5	11.0

Tuning Fork Style			
			Right-angled
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

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

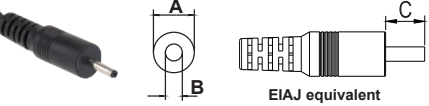
Barrel Style			
			Right-angled
Type No.	A	B	C
	OD	ID	L
D2IR	5.5	2.1	9.5
D2JR	5.5	2.1	11.0
D2LR	5.5	2.5	9.5
D2MR	5.5	2.5	11.0

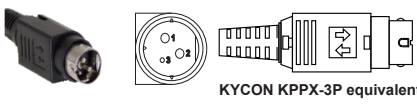
Lock Style			
			Floating Locking SWITCHCRAFT original or equivalent
Type No.	A	B	C
	OD	ID	L
D2S(S761K)	5.53	2.03	12.06
D2K(761K)	5.53	2.54	12.06
D2C(S760K)	5.53	2.03	9.52
D2D(760K)	5.53	2.54	9.52

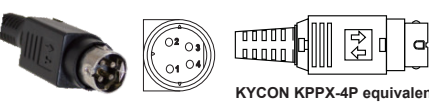
Center Pin Style				
			EIAJ equivalent	
Type No.	A	B	C	D
	OD	ID	L	Center Pin
D4A	5.5	3.4	11.0	1.0
D4B	6.5	4.4	11.0	1.4
D4C	7.4	5.1	11.0	0.6

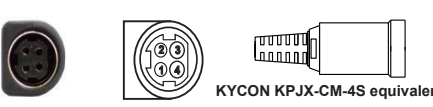
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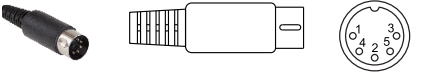
DC Output Plug (Option)

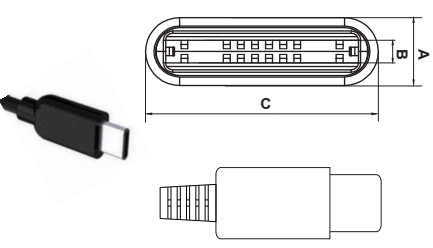
Tuning Fork Style			
	A	B	C
Type No.	OD	ID	L
D3A	2.35	0.7	11.0
D3B	4.0	1.7	11.0
D3C	4.75	1.7	11.0

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

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

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

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

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