

YS300-Class I SERIES

300W



Features

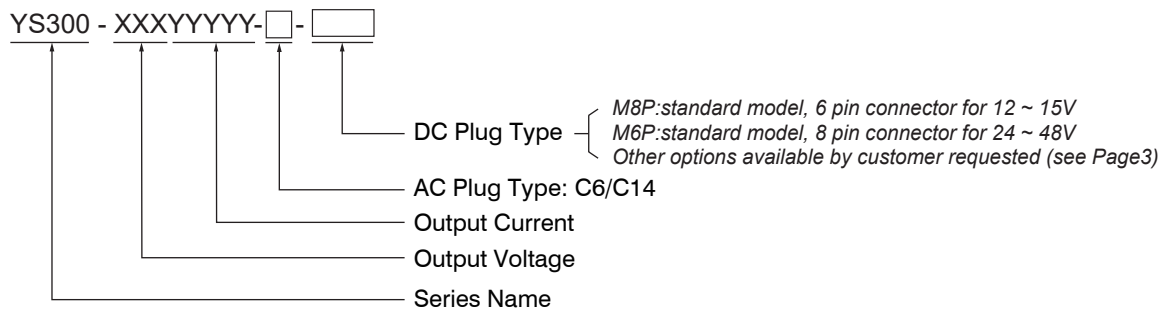
- Energy efficiency level VI
- Class I Power Supply
- 3 Years Warranty
- Universal AC input/Full range
- No load power consumption < 0.21W
- Protections: Short Circuit /Over Load / Over Voltage
- -30~+70℃ wide range working temperature

Applications

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

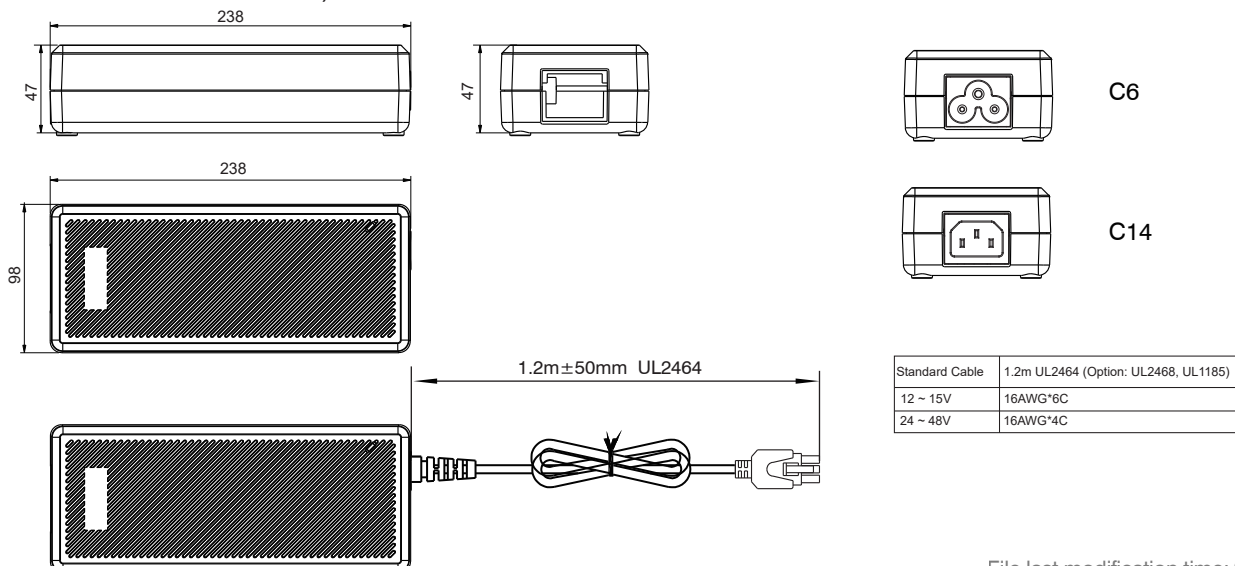


Model Description



Dimensions and installation

(Unit: mm , tolerance: ±1mm)



File last modification time: 2025-3-24

Specification

Model	Order P/N	YS300-12020000 -C6-M8P	YS300-15020000 -C6-M8P	YS300-24012500 -C6-M6P	YS300-36008330 -C6-M6P	YS300-48006250 -C6-M6P
	Safety Model No.	YS300-12020000	YS300-15020000	YS300-24012500	YS300-36008330	YS300-48006250
Output	DC Voltage	12V	15V	24V	36V	48V
	Rated Current	20A	20A	12.5A	8.33A	6.25A
	Rated Power	240W	300W	300W	300W	300W
	Ripple & Noise(max.)	100mVp-p	150mVp-p	200mVp-p	300mVp-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	1.0s,30ms,35ms/230VAC(at full load)			1.0s,30ms,22ms/115VAC(at full load)	
Input	Rated Voltage Range	100-240VAC				
	Voltage Range	90-264VAC				
	Frequency Range	50/60Hz				
	AC Current	4.6A/115VAC		2.7A/230VAC		
	Inrush Current	Cold Start 60A/200us at 230VAC 50Hz			Cold Start 40A/200us at 115VAC 50Hz	
	Leakage Current	<0.75mA/230VAC				
	Efficiency	89%	89.5%	89.5%	90.5%	91%
	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	EN 60335-1, EN 60335-2-29, EN 61558-2-16, EN 61558-1, EN 62368-1, EN 61347-1, EN 61347-2-13 EN 62493, EN 61547, FCC Part 15 Subpart B, ANSI C63.4, UL62368-1				
	Withstand Voltage	I/P-O/P: 3KVAC/1min I/P-FG: 2KVAC/1min O/P-FG: short circuit				
	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	870g/pcs; 54.5 x 26 x 23 cm; 10pcs/carton				
	Dimension (LxWxH)	238 x 98 x 47 mm				
	Plug and Cable	See page 3~5; Other type available by customer requested				
	MTBF	204.7Khrs 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.					

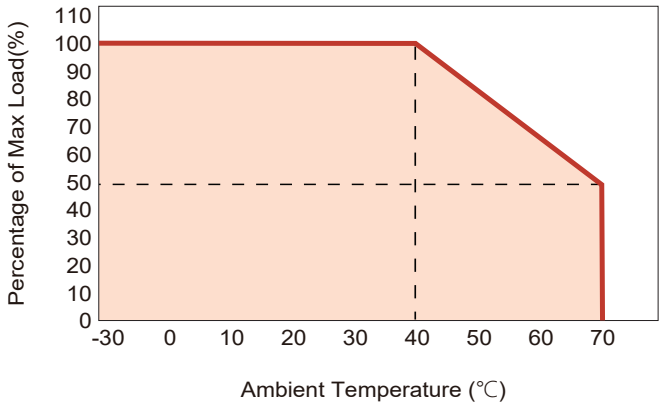
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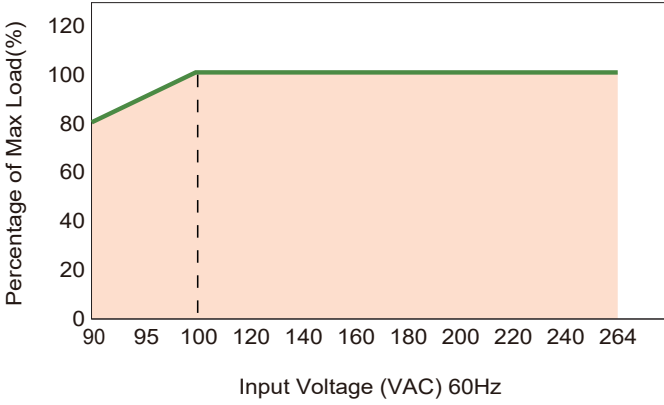
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Feature Curves

1. Derating Curve



2. Static Characteristics



DC Output Plug

Standard Model : M6P/M8P

M6P: For 24~48V

MOLEX 39-01-2060 (4.2mm) equivalent		
Type No.	Pin Assignment	
	PIN No.	Output
M6P	1	+Vo
	2	+Vo
	3	+Vo
	4	-Vo
	5	-Vo
	6	-Vo

M8P: For 12~15V

MOLEX 39-01-2080 (4.2mm) equivalent		
Type No.	Pin Assignment	
	PIN No.	Output
M8P	1,2,3,4	+Vo
	5,6,7,8	-Vo

DC Output Plug (Option)

M4P: For 36~48V

AMP 1-480702-0 (6.35mm) equivalent		
Type No.	Pin Assignment	
	PIN No.	Output
M4P	1	+Vo
	2	+Vo
	3	-Vo
	4	-Vo

MIC4: For 36~48V

Neutrik XLR NC4FX equivalent		
Type No.	Pin Assignment	
	PIN No.	Output
MIC4	1	+Vo
	2	+Vo
	3	-Vo
	4	-Vo