

YEL35 SERIES

35W



YEL35 series are designed with lower profile housing and for wide range AC input from 90VAC to 264VAC.

In addition to the high efficiency, Delivering an extremely low no load power consumption. the design of metallic mesh case enhances the heat dissipation.

The good performance can be used for industrial automation & control systems, varied equipments etc.

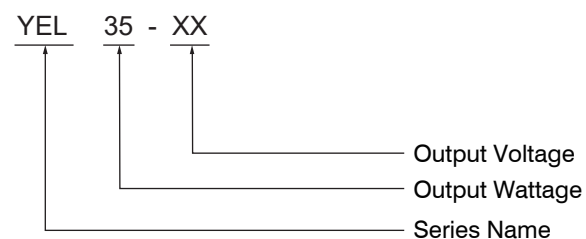


RoHS

Features

- Universal AC Input/ Full Range
- High operating temperature up to 70℃
- Cooling by free air convection
- Withstand 5G vibration test
- Protections: Short circuit/Over load/Over voltage
- High efficiency, long life and high reliability
- LED indicator for power on
- Over voltage category II
- 100% full load burn-in test
- Three years warranty

Model Description



Model Information

Part number	DC Voltage	Rated Current(max.)	Rated Power	Efficiency	No load power consumption	Ripple & Noise	Max Capacitive Load	Voltage ADJ Range
YEL35-5	5V	7A	35W	83%	0.5W	80mVp-p	8000uF	4.5~5.5V
YEL35-12	12V	3A	36W	85%	0.5W	120mVp-p	1500uF	10.6~13.8V
YEL35-15	15V	2.4A	36W	85%	0.5W	120mVp-p	1000uF	13.5~18V
YEL35-24	24V	1.5A	36W	86%	0.5W	150mVp-p	750uF	21.6~28.8V
YEL35-36	36V	1A	36W	86%	0.5W	200mVp-p	470uF	32.4~39.6V
YEL35-48	48V	0.8A	38.4W	88%	0.5W	200mVp-p	220uF	43.2~52.8V

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Specification

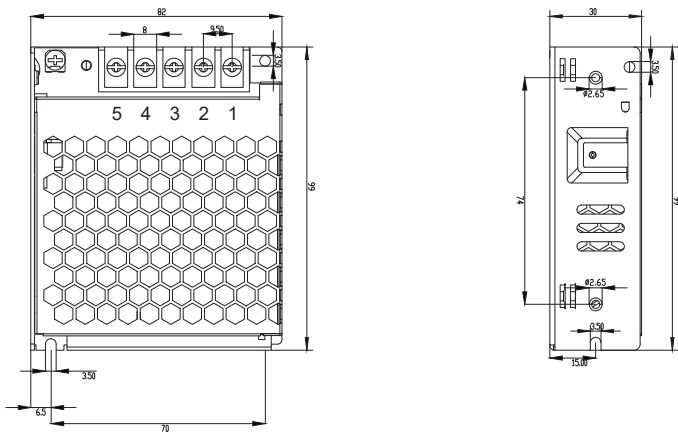
Model	Safety Model No.	YEL35-XX	
Output	Setup,Rise,Hold up Time	1.0s,30ms,30ms/230VAC(at full load)2.0s,30ms,12ms/115VAC(at full load)	
	Voltage Tolerance	± 2.0%YEL35-5	±1.0%YEL35-12/15/24/36/48
	Line Regulation	±0.5%	
	Load Regulation	± 2.0%YEL35-5	± 1.0%YEL35-12/15/24/36/48
Input	Rated Voltage Range	100-240VAC	
	Voltage Range	90-264VAC/127-370VDC	
	Frequency Range	50/60Hz	
	AC Current	1.0A/115VAC	0.5A/230VAC
	Inrush Current	Cold Start 65A/200us at 230VAC 50HzCold Start 35A/200us at 115VAC 50Hz	
	Leakage Current	<1.5mA/240VAC	
Protection	Over Load	110~160%Rated Output Power	
		Rated load, the load can be automatically restored after abnormal conditions are removed.	
	Short Circuit	Hiccup mode, recovers automatically after fault condition is removed.	
	Over Voltage	115~140%Rated Output Voltage	
		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 ~ 50 ℃) on load output	
	Vibration	Component: 10 ~ 500Hz, 5G 10min./1cycle, 60min. each along X, Y, Z axes	
	Safety Protection	Class I	
	Over Voltage Category	OVC II / According to BS EN/EN61558, BS EN/EN50178,BS EN/EN60664-1,BS EN/EN62477-1;altitude up to 2000 meters	
Safety	Safety Standards	UL62368-1,EN62368-1 approved , design to meet :BS EN62368-1,EN60335-1, EN61558-1	
	Withstand Voltage	I/P-O/P:3KVAC/1min I/P-FG:2KVAC/1min O/P-FG:0.5KVAC/1min	
	Isolation Resistance	I/P-O/P:100M Ohms / 500VDC / 25 ℃ / 70% RH	
EMC	EMC EMISSION	Compliance to BS EN/EN55032 (CISPR32) Class B,BS EN/EN55035 BS EN/EN61000-3-2, BS EN/EN61000-3-3	
	EMC IMMUNITY	Compliance to BS EN/EN61000-4-11 Criteria B, BS EN/EN61000-4-2,3,4,5,6,8 Criteria A	
Others	Packing	205g/pcs; 38 x 34.5 x 20.5 cm; 60pcs/carton	
	Dimension (LxWxH)	99 x 82 x 30 mm	
	MTBF	356.4Khrs min. MIL-HDBK-217F(25 ℃)	
	Housing material	Aluminium / steel	
Note	1.All parameters NOT specially mentioned are measured at 230VAC input, rated load and 25 ℃ of ambient temperature. 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. The power supply is considered a component which will be installed into a final equipment. All the EMC tests are been executed by mounting the unit on a 360mm*360mm metal plate with 1mm of thickness. The final equipment must be re-confirmed that it still meets EMC directives. For guidance on how to perform these EMC tests, please refer to "EMI testing of component power supplies". (as available on https://yingjiao.com/wp-content/uploads/2025/06/EMI_Testing_of_Component_Power_Supplies_Yingjiao.pdf) 4. Length of set up time is measured at cold first start. Turning ON/OFF the power supply very quickly may lead to increase of the set up time. 5. 5V when the load factor 0~50%, the switching power less is reduced by burst operation, which wil cause ripple and ripple noise to go beyond the specifications 6.The ambient temperature derating of 3.5 ℃/1000m with fanless models and of 5 ℃/1000m with fan models for operating altitude higher than 2000m(6500ft).		

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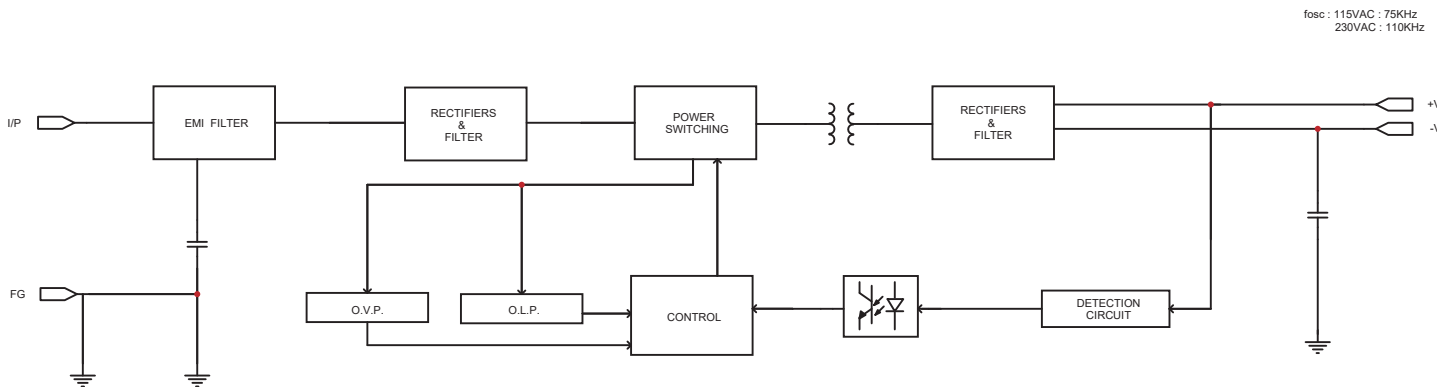
Drawing & Label

(Unit: mm , tolerance: $\pm 1\text{mm}$)



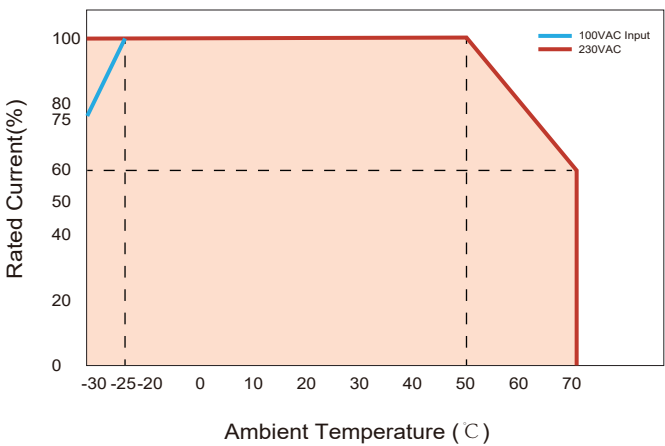
Terminal Pin No. Assignment	
Pin No.	Assignment
1	AC/L
2	AC/N
3	FG
4	DC OUTPUT -V
5	DC OUTPUT +V

Block Diagram

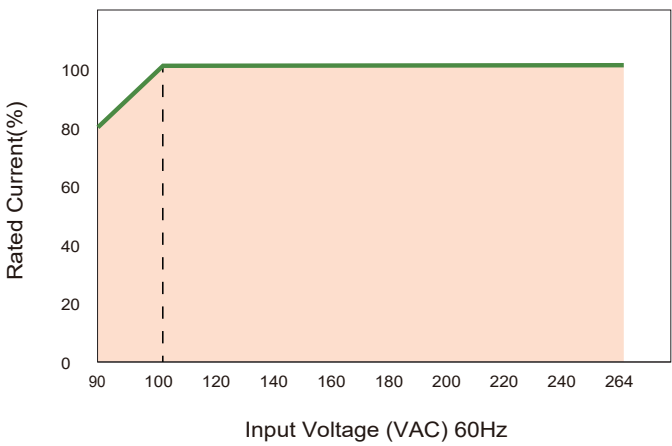


Engineering Data

Derating Curve



Static Characteristics



File last modification time: 2025-7-11