

Features

- Input Voltage 90~264V AC or 127~370V DC
- Cooling by free air convection
- Efficiency up to 89.5%
- Protection: OLP, OVP, SCP
- 3 Years Warranty



56YEL100-x AC-DC PSU Series

100W Enclosed AC/DC Power Supply (PSU)



The 56YEL100-x Series is a performance-focused 100W Enclosed AC/DC Power Supply. Designed for use in applications such as network equipment and signal distribution hardware. This series is supplied with a Screw Terminal Block input connection and supports input voltages of 90~264V AC 47~63Hz.

Models						
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Model	Voltage (V)	Rated	Rated	%	Voltage	Ripple and
	DC	Current	Power	Efficiency	range	Noise mVp-
56YEL100-05	5	18	90	85	4.5~5.5	100
56YEL100-12	12	8.5	102	86.5	10.2~13.8	120
56YEL100-15	15	7	105	86.5	13.5~18	120
56YEL100-24	24	4.5	108	88	21.6~28.8	150
56YEL100-36	36	3	108	89.5	32.4~39.6	200
56YEL100-48	48	2.3	110.4	89	43.2~52.8	200



Input Specifications			
Input Voltage	90-264VAC/127-37	OVDC	
Frequency Range	47-63Hz		
AC Current	2.1A/115VAC	1.6A/230VAC	
Inrush Current	Cold Start 50A/200เ	ıs at 230VAC	50Hz Cold Start 30A/200us at 115VAC 50Hz
Leakage Current	<1.5mA/240VAC		

Output Specifications			
Voltago Toloranco	±2.0%	5v	
Voltage Tolerance	±1.0%	Others	
Line Regulation	±0.5%		
Load Regulation	±2.0%	5v	
Loud Hogalation	±1.0%	Others	
Set up Rise Time Hold up	0.5s,30ms,55	ms/230VAC(at full load)	0.5s,30ms,10ms/115VAC(at full load)

Protection	
	110%-160% Rated Output Power
Over Load	Hiccup mode, recovers automatically after fault condition is removed.
0	115~140%Rated Output Voltage (56YEL75-15: 115~175%)
Over Voltage	Shut down o/p voltage, re-power on to recover.
Short Circuit	Hiccup mode, recovers automatically after fault condition is removed

Environmental Characteristics		
Working Temp	-30~+70°C (Refer to "Derating Curve")	
Working Humidity	20~95% RH non-condensing	
Storage Temp., Humidity	-40~+85°C, 10~95% RH non-condensing	
Temp. Coefficient	±0.03%/°C (0~50°C)	
Vibration	Component: 10 ~ 500Hz, 5G 10min./1cycle, 60min. each along X, Y, Z axes	
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	
MTBF	264.5Khrs min. MIL-HDBK-217F(25°C)	
Safety Protection	Class I	

Safety & EMC	
Safety Standards	UL62368-1, EN62368-1
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°C/ 70% RH
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



Notes:

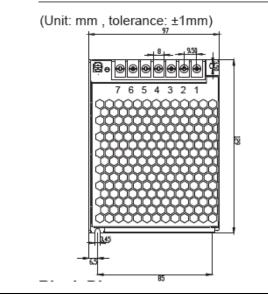
- 1. All parameters NOT specially mentioned are measured at 230VAC input, rated load and 25°C of ambient temperature.
- 2. Ripple & noise are measured from peak to peak with band width limit of 20MHz (0.1uf and 47uf /50V parallel capacitor under DC output full load, AC nominal input 25 °C ambient temperature).
- 3. Derating may be needed under low input voltages. Please check the derating curve for more details.
- 4. The power supply is considered a component which will be installed into a final equipment. 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."
- 5. The ambient temperature derating of 5°C/1000m is needed for operating altitude greater than 2000m(6500ft).

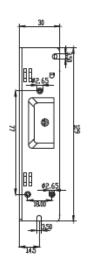
Dimensions & We	ight	
Size	129 x 97 x 30 mm	
Weight	301g/pcs	

Packaging	
Carton Size	33 x 30 x 21 cm
Master Carton Quantities	30pcs/carton

Dimensions and Recommended Layout

Drawing & Label





Terminal Pin No. Assignment Pin No. Assignment AC/L 2 AC/N 3 PG 4 DC OUTPUT -V 5 DC OUTPUT -V 6 DC OUTPUT +V 7 DC OUTPUT +V

