

Features

- Input Voltage 90~264V AC or 127~370V DC
- Cooling by free air convection
- Efficiency up to 89%
- Protection: OLP, OVP, SCP
- 3 Years Warranty



56YEL50-x AC-DC PSU Series

50W Enclosed AC/DC Power Supply (PSU)



UK CA CE CULUS ROHS





The 56YEL50-x Series is a high-performance 50W Enclosed AC/DC Power Supply. Designed for use in applications such as digital signage, displays and user interfaces. This series is supplied with a Screw Terminal Block input connection and supports input voltages of 90~264V AC 47~63Hz.

Models						
Model	Voltage (V)	Rated	Rated	%	Voltage	Ripple and
	DC	Current	Power	Efficiency	range	Noise mVp-
56YEL50-05	5	10	50	83	4.5~5.5	80
56YEL50-12	12	4.2	50.4	83.5	11.0~13.8	120
56YEL50-15	15	3.4	51	84	13.5~18	120
56YEL50-24	24	2.2	52.8	86.5	21.6~28.8	150
56YEL50-36	36	1.45	52.2	88	32.4~39.6	200
56YEL50-48	48	1.1	52.8	89	43.2~52.8	200



Input Specifications		
Input Voltage	90-264VAC/127-370VDC	
Frequency Range	47-63Hz	
AC Current	1.2A/115VAC 0.65A/230VAC	
Inrush Current	Cold Start 60A/500us at 230VAC 50Hz	Cold Start 30A/500us at 115VAC 50Hz
Leakage Current	<1.5mA/240VAC	

Output Specifications			
· · · · · · · · · · · · · · · · · · ·	±2.0%	5v	
Voltage Tolerance	±1.0%	Others	
Line Regulation	±0.5%		
Load Regulation	±2.0%	5v	
	±1.0%	Others	
Set up Rise Time Hold up	1.0s,30ms,30ms/230VAC(at full load)		2.0s,30ms,12ms/115VAC(at full load)

Protection	
	110%-160% Rated Output Power
Over Load	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.
Short Circuit	Hiccup mode, recovers automatically after fault condition is removed

Environmental Characte	PISTICS
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	312.4Khrs 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).

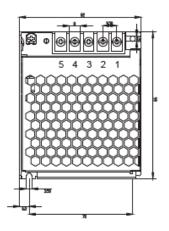
Dimensions & Weigl	nt
Size	99 x 82 x 30 mm
Weight	207g/pcs

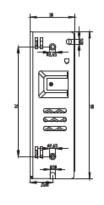
Packaging	
Carton Size	38 x 34.5 x 20.5 cm
Master Carton Quantities	60pcs/Carton

Dimensions and Recommended Layout

Drawing & Label

(Unit: mm , tolerance: ±1mm)





Terminal Pin No. Assignment

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

