

Features

- Universal AC Input/ Full Range
- High operating temperature up to 70°C
- Approved to UKCA, CE, RoHS & REACH
- Protections: Short circuit /Overload /Over voltage
- Efficiency up to 89%
- No load power consumption<0.5W



56YSI25-xy Series

25W Enclosed AC DC Power Supply



The 56YSI25-xy Series is a durable and consistent Internal Power Supply PCB Mount Power Supplies. Designed for use in applications such as computing platforms and communications equipment. This series is supplied with a Pin Connection input connection. Certified to UKCA, CE, RoHS, REACH

Model Number Information

56YSI 25 xy

Series Name Rated Wattage Output Voltage

Models

Model Number	Rated Power (W)	DC Voltage (V)	Rated Current (A)	Efficiency (%)	Max. Capacitive Load (uF)	Ripple & Noise (mVp-p)
56YSI25-3.3	19.8	3.3	6	84	10000	80
56YSI25-5	25	5	5	85.5	8000	80
56YSI25-12	25.2	12	2.1	85	1500	120
56YSI25-15	25.5	15	1.7	84.5	1000	120
56YSI25-24	26.4	24	1.1	86	750	120
56YSI25-48	27.36	48	0.57	86	220	200

Input Specifications	
Input Voltage	90-264VAC
Frequency Range	50/60Hz
AC Current	0.6A/115VAC 0.2A/230VAC
Inrush Current	Cold Start 45A/240us at 230VAC 50Hz
Leakage Current	<2mA/240VAC

Output Specifications	
Voltage Tolerance	+3.0% - 56YSI25-3.3 +2.0% -56YSI25-5 +1.0% -The other models
Line Regulation	+0.5%
Load Regulation	+2.0% - 56YSI25-3.3 +1.0% - 56YSI25-5 +0.5% -The other models
Setup,Rise,Hold up Time	1.8s,23ms,80ms/230VAC(at full load) 4.0s,80ms,14ms/115VAC(at full load)

Protection	
Over Load	110~180%Rated Output Power Hiccup mode, recovers automatically after fault condition is removed
Short Circuit	Hiccup mode, recovers automatically after fault condition is removed
Over Voltage	115~135%Rated Output Voltage Shut down o/p voltage, re-power on to recover.

Environmental Characteristics	
Working Temp	-20 ~ +70°C(Please refer to "Derating Curve"section)
Working Humidity	20 ~ 95%RH Non-condensing
Storage Temp., Humidity	-40 ~ +85°C, 10 ~ 95%RH Non-condensing
MTBF	356.4Khrs min. MIL-HDBK-217F(25°C)
Over Voltage Category	OVC II/ According to EN62368-1;altitude up to 2000 meters
Vibration	Component: 10 ~ 500Hz, 5G 10min./1cycle, 60min. each along X, Y, Z axes

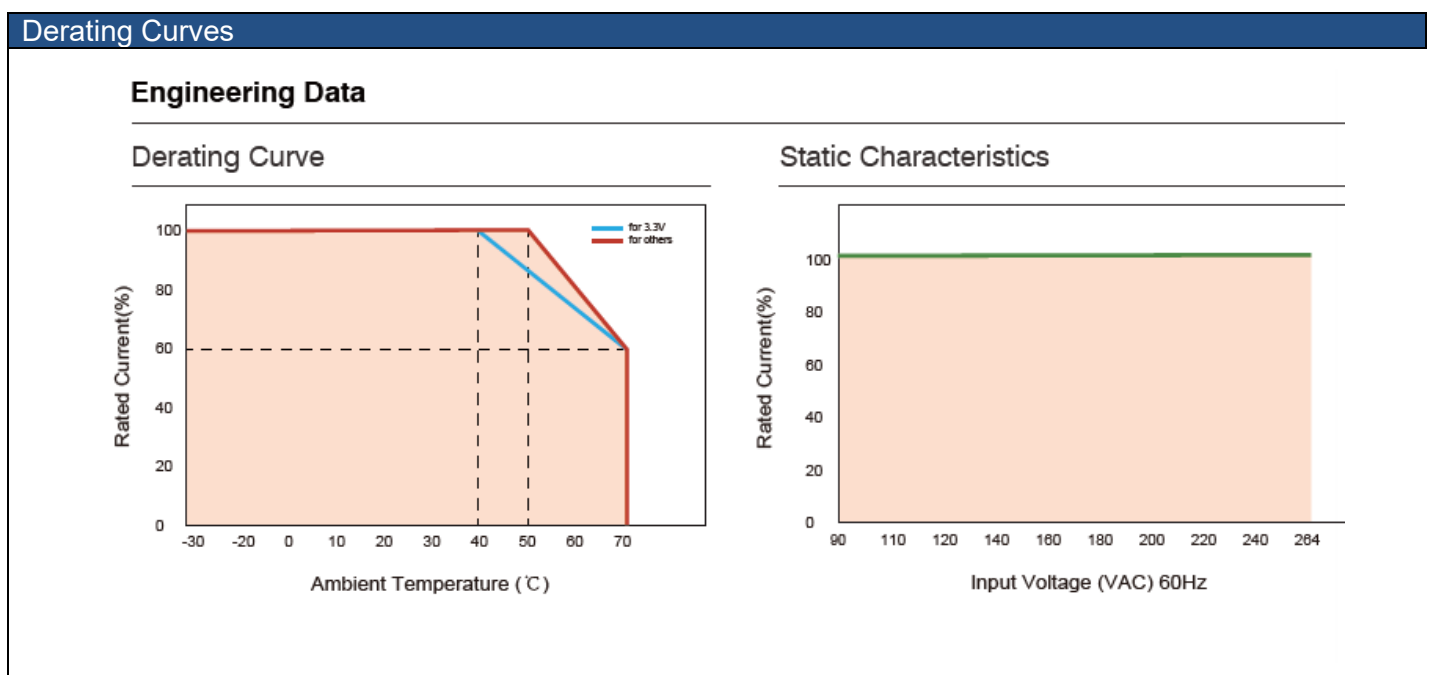
Safety & EMC	
Safety Standards	EN62368-1 approved
Withstand Voltage	I/P-O/P:3KVAC/1min I/P-FG:2KVAC/1min O/P-FG:0.5KVAC/1min
Isolation Resistance	I/P-O/P:100M Ohms / 500VDC / 25°C/ 70% RH
EMC Emission:	Compliance to BS EN/EN55032 (CISPR32) Class B,BS EN/EN55035 BS EN/EN61000-3-2 Class A-D,BS EN/EN61000-3-3
EMC Immunity:	Compliance to BS EN/EN61000-4-11 Criteria B, BS EN/EN61000-4-2,3,4,5,6,8 Criteria A

Notes:

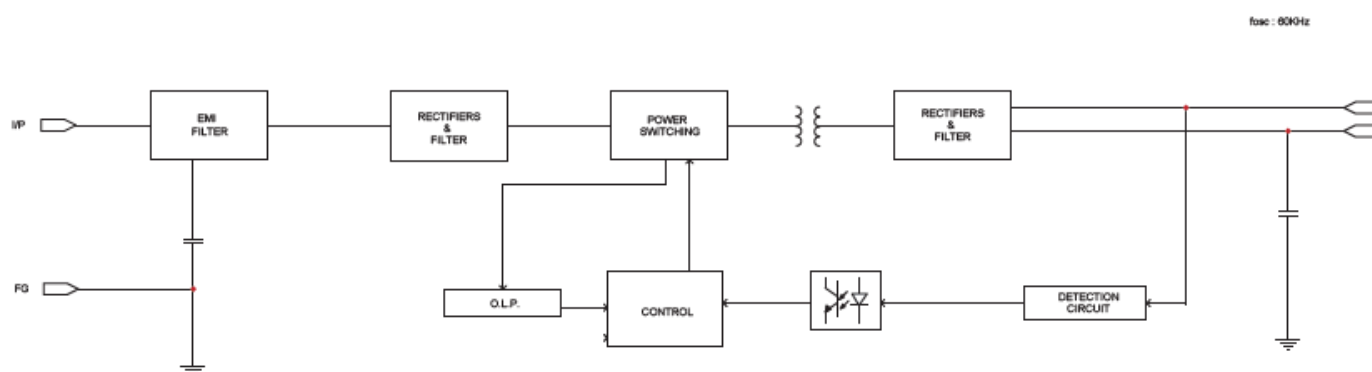
1. All parameters NOT specially mentioned are measured at 115/230VAC input, rated load and 25°C of ambient temperature.
2. Ripple & noise are measured at 20MHz of bandwidth by using a 12" twisted pair-wire terminated with a 0.1uf & 47uf parallel capacitor.
3. Tolerance : includes set up tolerance, line regulation and load regulation.
4. Line regulation is measured from low line to highline at rated load.
5. Load regulation is measured from 0% to 100% rated load.
6. The ambient temperature derating of 5°C/1000m is needed for operating altitude greater than 2000m(6500ft).
7. 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.

Dimensions & Weight	
	Measurements
56YSI25-xy	78 x 51 x 28 mm

Packaging	
Weight:	140g / pcs
Packaging:	50PCS/CTN

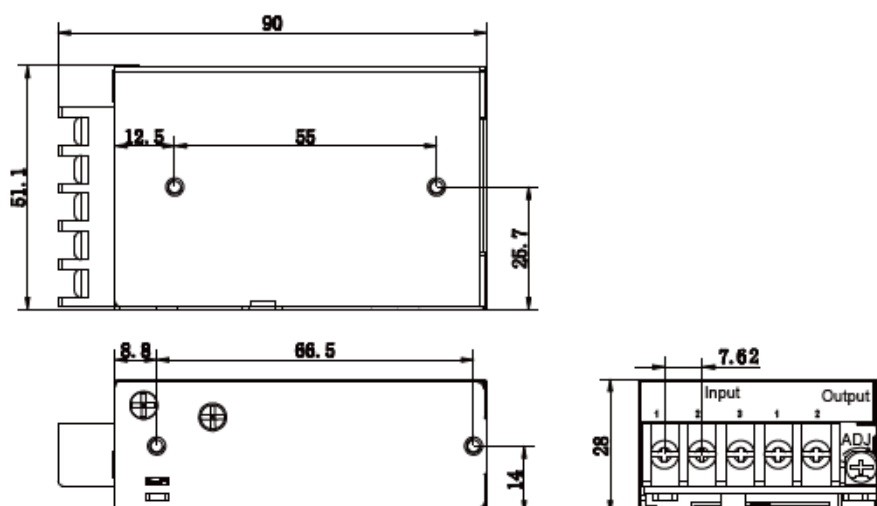


Functional Diagram



Drawing & Label

(Unit: mm , tolerance: $\pm 1mm$)



AC Input Terminal pin NO.Assignment

Pin No.	Assignment	Terminal	Max mounting torque
1	AC/L	B762C-03-05P-KC	0.8N-m
2	AC/N		
3	$\perp$		

DC Output Terminal pin NO.Assignment

Pin No.	Assignment	Terminal	Max mounting torque
1	-V	B762C-03-05P-KC	0.8N-m
2	+V		