

Features

- Universal AC input/ Full range
- No load power consumption<0.5W
- Approved to UKCA, CE, RoHS & REACH
- Protection: Over load/Over voltage/Short circuit/ Over Temperature
- Efficiency up to 81%
- Over-voltage class III



56YSI15-xy Series

15W Enclosed AC DC Power Supply



The 56YSI15-xy Series is a high-efficiency and standards-compliant Internal Power Supply PCB Mount Power Supplies. Designed for use in applications such as industrial control and automation systems. This series is supplied with a Pin Connection input connection. Certified to UKCA, CE, RoHS, REACH

Model Number Information

56YSI 15 xy

Series Name Rated Wattage Output Voltage

Models

Model Number	Rated Power (W)	DC Voltage (V)	Rated Current (A)	Efficiency (%)	Max. Capacitive Load (uF)
56YSI15-5	15	5	3	75	2400
56YSI15-12	15.6	12	1.3	79	1800
56YSI15-24	15	24	0.625	80	600
56YSI15-48	15	48	0.313	81	300

Input Specifications	
Input Voltage	90-264VAC
Frequency Range	50/60Hz
AC Current	0.35A/115VAC 0.25A/230VAC
Inrush Current	Cold start 65A. at 230VAC/50Hz,full load
Leakage Current	<2mA/240VAC

Output Specifications	
Voltage Tolerance	+2.0% - 56YSI15-5 +1.0% -The other models
Line Regulation	+0.5%
Load Regulation	+2.0% - 56YSI15-5 +1.0% - The other models
Setup,Rise,Hold up Time	500ms, 30ms/70ms 230VAC 1000ms, 30ms/20ms 115VAC at full load

Protection	
Over Load	Above 105% rated output power Protection type: Hiccup mode, recovers automatically after fault condition is removed
Short Circuit	Protection type: Hiccup mode, recovers automatically after fault condition is removed
Over Voltage	Above 105% rated output power Protection type: Hiccup mode, recovers automatically after fault condition is removed

Environmental Characteristics	
Working Temp	-20 ~ +60°C (Refer to "Derating Curve")
Working Humidity	10 ~ 95% RH
Storage Temp., Humidity	-40 ~ +85°C,20 ~ 95%RH Non-condensing
MTBF	600Khrs min. MIL-HDBK-217F(25°C)
Over Voltage Category	Over-voltage class III designed to meet EN61558

Safety & EMC	
Safety Standards	UL 62368-1,TUV BS, EN 62368-1, IEC 60950-1:20
Withstand Voltage	I/P-O/P:3KV AC I/P-FG:2KV AC O/P-FG:0.5KV AC
Isolation Resistance	I/P-O/P, I/P-FG, O/P-FG:100M Ohms / 500VDC / 25°C/ 70% RH
EMC Emission:	Compliance to BS EN/EN55032 (CISPR32) Class B, BS EN/EN61000-3-2,-3 Class A, GB9254 Class B
EMC Immunity:	EN/EN61000-4-2,11 perf.Criteria B ; EN/EN61000-4-3,4,5,6,8 perf.CriteriaA ;BS EN/EN55035

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

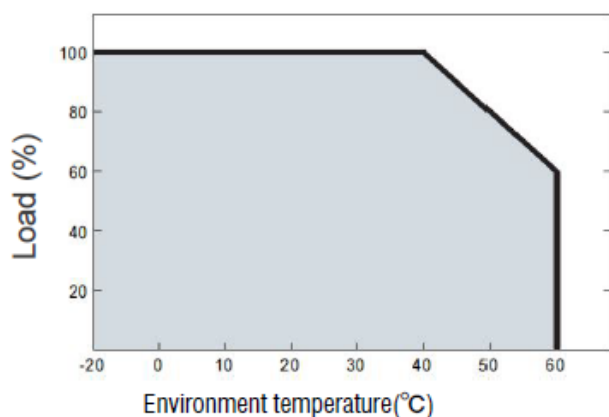
	Measurements
56YSI15-xy	62.5x51x28mm

Packaging

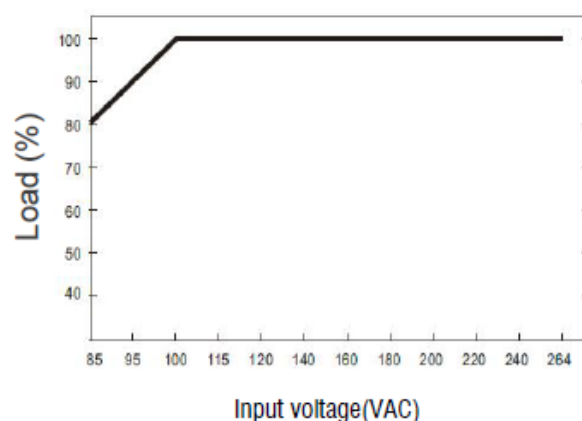
Weight:	130g / pcs
Packaging:	100PCS/CTN

Derating Curves

Deduction curve and temperature



Minus output and input voltage curves



Functional Diagram

