

Features

Universal Input Voltage Range
340~550V AC

Approved to UKCA, CE, cULus

UL61010-1, UL61010-2, BS
EN61558-1, BS/EN 61558-2 Safety
Approved

94.5% Efficiency

DC OK function

Single Output 24V DC

Output short circuit, over-current,
over-voltage protection



56YSDT240-24-RS Series

240W DIN Rail Mount AC DC Power Supply Converter



The 56YSDT240-xy-RS Series is a high-quality and reliable Internal Power Supply (PSU)>DIN Rail Power Supplies. Designed for use in applications such as commercial, industrial and OEM electronics. This series is supplied with a Terminal Block input connection and supports input voltages of 340~550V AC 47~63Hz.

Model Number Information

56YSDT	240	xy	-RS
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Series Name	Rated Wattage	Output Voltage	Series Name
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Models

Model Number	DC Voltage (V)	Rated Current (A)	Rated Power (W)	Efficiency (%)	Ripple & Noise(max.) (mVp-p)
56YSDT240-24-RS	24	10	240	92	100

Input Specifications		
Voltage Range	340~550 VAC	
Input Electrical Phase	Three	
Input current	0.68A/400V AC –0.6A/500V AC	
Line Frequency	47 to 63Hz	
Efficiency	92%	
Inrush Current	Cold Start 50A/200us at 230VAC 50Hz	Cold Start 30A/200us at 115VAC 50Hz
Leakage Current	<2mA / 530V ac	

Output Specifications		
Voltage Adjustment	-5 to +5 ; -20 to +100	
Switching Frequency	135KHz Maximum	
Rise Time	1500ms, 60ms/400V AC at full load	
Transient Recovery Time	2ms	
Line Regulation	± 0.5%	
Isolation Resistance	I/P-O/P, I/P-F/G, O/P-F/G: >100M Ohms/500VDC/25OC/70%RH	
Load Regulation	± 1.0%	
Electrostatic Discharge	8kV air discharge / 6 kV contact discharge	
MTBF	1500k hrs min	

Protection		
Over Load	105~150% Hiccup mode, recovers automatically after fault condition is removed.	
Short Circuit	Shut down o/p voltage, re-power on to recover.	
Over Voltage	120~180% Shut down o/p voltage, re-power on to recover.	

Environmental Characteristics		
Working Temp	-20 to 95°C	
Working Humidity	30% to 70% RH	
Storage Temp., Humidity	-40 to 85°C	
Temp. Coefficient	0.03%/(0 ~ 40°C)	
Cooling	Natural convection	
Altitude During Operation	5000m	
Vibration Resistance	Mounting on rail: 10-500 Hz, 2G, along X, Y,Z each Axis, 60 min for each Axis	
Shock Resistance	15G, 11ms, 3 Axis, 6 Faces, 3 times for each Face	

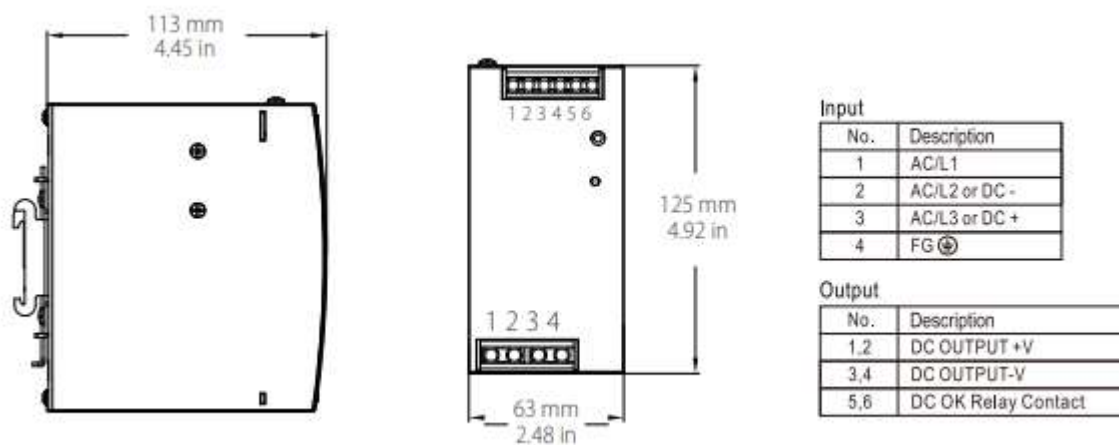
Safety & EMC

Compliance/Certifications	UKCA, CE, cULus
Standards met	UL61010-1, UL61010-2, BS/EN61558-1, BS/EN 61558-2

Dimensions & Weight

	Measurements	Weight
56YS6B-xy Series	125 x 63 x 113mm	1000g Pcs

Drawings



Circuit

