

Features

Universal Input 90~264VDAC

Desktop power supply

Approved to CE, FC, CB, TUV-GS, cULus, UKCA & RoHS

EN/EN62368-1 Safety Approved

EMC Class B Certified

Single Output 9V DC

OVP, OLP, SCP



56YS50-xy Series

36W External AC/DC Desktop Power Supply



The 56YS50-xy Series is a consistent and high-performing 36W External AC/DC Desktop Power Supply. Designed for use in applications such as embedded electronics and control equipment. This series is supplied with a C14 intel input connection and supports input voltages of 90~264V AC 50~60Hz.

Model Number Information

56YS50	xy	<input type="checkbox"/>
Series Name	Output Voltage	AC Plug type C6/C14

Models

Model Number	DC Voltage (V)	Rated Current (A)	Rated Power (W)	Efficiency (%)	Ripple & Noise(max) (mVp-p)
56YS50-0904000	9	4	36	88	100

Input Specifications		
Rated Voltage Range	100-240VAC	
Voltage Range	90-264VAC	
Frequency Range	50/60Hz	
AC Current	1.5A/115VAC	0.8A/230VAC
Efficiency	88%	
Inrush Current	Cold Start 60A/200us at 230VAC 50Hz Cold Start 40A/200us at 115VAC 50Hz	
Leakage Current	<0.75mA/230VAC	
No load power consumption	<0.21W	

Output Specifications	
DC Voltage	9V
Rated Current	4A
Rated Power	36W
Ripple & Noise(max.)	100mVp-p
Voltage Tolerance	+5%
Line Regulation	+3%
Load Regulation	+5%
Setup,Rise,Hold up Time	0.8s,30ms,80ms/230VAC(at full load) 2.0s,30ms,15ms/115VAC(at full load)

Protection	
Over Load	105~150% Hiccup mode, recovers automatically after fault condition is removed.
Short Circuit	Hiccup mode, recovers automatically after fault condition is removed.
Over Voltage	105~150% Hiccup mode, recovers automatically after fault condition is removed.

Environmental Characteristics	
Working Temp	-30 ~ +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
Temp. Coefficient	0.03%/(0 ~ 40°C)
MTBF	354.9Khrs min. MIL-HDBK-217F(25°C)

Safety & EMC			
Safety Standards	BS EN IEC 62368-1		
Withstand Voltage	I/P-O/P: 3KVAC/1min		
Isolation Resistance	I/P-O/P:100M Ohms / 500VDC / 25°C/ 70% RH		
EMC Emission	Parameter	Standard	Test Level
	Conducted	EN55032(CISPR32)	CLASS B
	Radiated	EN55032(CISPR32)	CLASS B
	Harmonic Current	BS EN61000-3-2	CLASS B
	Voltage flicker	BS EN61000-3-3	CLASS B
EMC Immunity	Parameter	Standard	Test Level
	ESD	BS EN61000-4-2	Level 3, 8KV air, criteria A
	Radiated Susceptibility	BS EN61000-4-3	Level 3, criteria A
	EFT/Burest	BS EN61000-4-4	Level 3, criteria A
	Surge	BS EN61000-4-5	Level 4, 2KV/L-N, criteria A
	Conducted	BS EN61000-4-6	Level 3, criteria A
	Magnetic Field	BS EN61000-4-8	Level 4, criteria A
	Voltage Dips and interruptions	BS EN61000-4-11	> 95% dip 0.5 periods, 30% dip 25 periods, >95% interruptions 250 periods>

Notes:

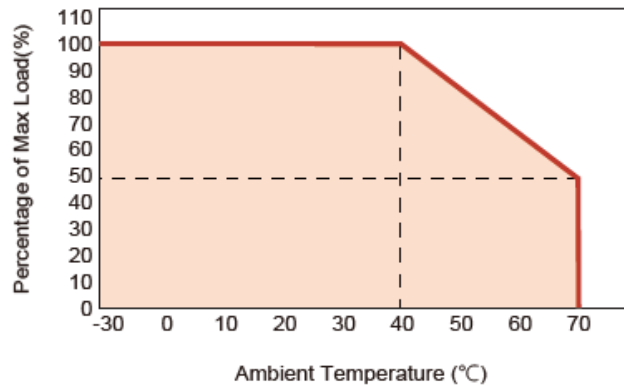
1. All parameters without special description are measured under the conditions of input 230VAC, rated load, ambient temperature 25 ° C, and ambient humidity less than 75%.
2. Ripple & noise are measured from peak to peak with a bandwidth limit of 20MHz(0.1uf and 47uf /50V parallel capacitor under DC output full load, AC nominal input 25 °C ambient temperature).
3. Tolerance: includes set up tolerance, line and load regulation.
4. Derating may be needed under low input voltages. Please check the derating curve for more details.
5. The power supply is considered a component which will be installed into the final equipment. The final equipment must be confirmed to meet EMC directives. For guidance on performing these EMC tests, please refer to "EMI testing of component power supplies."
6. The ambient temperature derating of 3.5°C/1000m is needed for operating altitude greater than 2000m(6500ft).

Dimensions & Weight		
	Measurements	Weight
56YS50-0904000	116.5 x 54.2 x 34.6 mm	310g/pcs

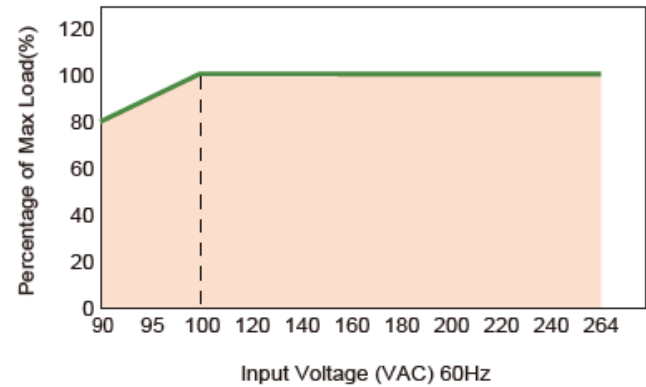
Packaging	
Carton Size	34 x 31 x 37 cm
Master Carton Quantities	50pcs/carton

Derating Curves

1. Derating Curve



2. Static Characteristics



DC Output Plug (Option)

Standard Model : D1J

D1J	Pin Assignment
