

Features

Energy Efficiency level VI

Class II Power Supply

Universal AC input/Full range

No load power consumption < 0.21W

-30~+70°C wide range working temperature

OLP, OVP, SCP

56YS50-va-D1J-RS

42W External AC/DC Desktop Power Supply



Manufactured to support a 90-264 V AC input voltage range. Delivered through Ideal Power, a B2B distributor you can rely on.

The YS50-0904000-RS is a Single output 12V DC 3.5A 42W model and delivers quality output expected from a professional-grade power supply unit.

Model Number Information

56YS50 **v** **a** **D1J** **RS**

Series Name Output Voltage Output Current DC Plug Type RS Product

Models

Model Number	DC Voltage (V)	Rated Current (A)	Rated Power (W)	Efficiency (%)	Ripple & Noise(max.) (mVp-p)
56YS50-1203500-D1J-RS	12	3.5	42	88	120

Input Specifications

Rated Voltage Range	100~240VAC
Voltage Range	90~264VAC
Frequency Range	47~63Hz (50~60Hz Nominal)
Rated input current	1.5A/115VAC, 0.8A/230VAC Max
Inrush Current	Cold Start 60A/200us at 230VAC 50Hz Cold Start 40A/200us at 115VAC 50Hz
Energy Consumption	Input is 115Vac or 230Vac and the output has no load, the input power loss < 0.21W

Output Specifications

Min/Max Load	0.01A/3.5A
Output Range	11.05 V- 13.05 V
Line Regulation	±3%
Load Regulation	±5%
Turn - on Delay Time	3S max. @ 100 Vac to 240 Vac input & Full load
Rise Time	0.8s, 30ms, 80ms/230VAC (at full load)
Hold-up Time	2.0s, 30ms, 15ms/115VAC (at full load)

Protection

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

Environmental Characteristics

Operating Temperature	-30°C to +70°C	Relative Humidity	20%RH to 95%RH
Storage Temperature	-40°C to +85°C	Relative Humidity	10%RH to 95%RH

Reliability Requirements

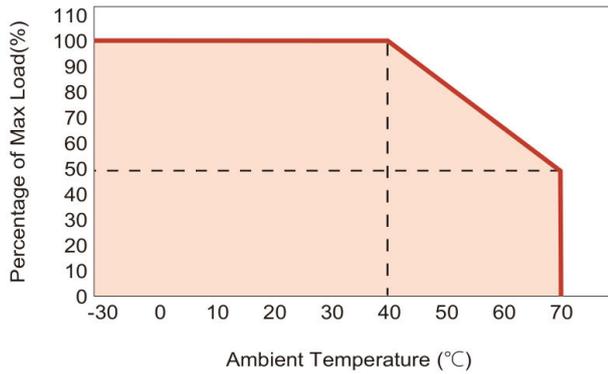
MTBF Qualification	354.9Khrs min. MIL-HDBK-217F(25°C)input condition
Vibration	10 ~ 500Hz, 5G 12min./1cycle, period for 72min. each along X, Y, Z axes

Regulatory Compliance	
EMI/EMS Standards	FCC part 15 Class B, EN55032 EN55035

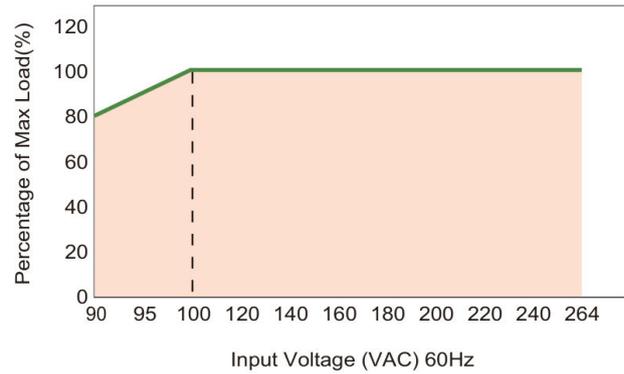
Safety & EMC			
Measurements			
Safety Standards	EN62368-1, UL62368		
Certifications	UKCA, CE, cULus, RoHS & REACH		
Withstand Voltage	I/P-O/P: 3KVAC/1min I/P-FG: 2KVAC/1min O/P-FG: 0.5KVAC/1min		
Leakage Current	<0.75mA / 230VAC		
Insulation Resistance	I/P-O/P: 100M Ohms / 500VDC / 25°C/ 70% RH		
EMC Emission	Parameter	Standard	Test Level
	Conducted	EN55032	Class B
	Radiated	EN55032	Class B
	Harmonic Current	EN61000-3-2	Class B
	Voltage Flicker	EN61000-3-3	Class B
EMC Immunity	Parameter	Standard	Test Level
	ESD	EN61000-4-2	Level 3, 8kV air, criteria A
	Radiated Susceptibility	EN61000-4-3	Level 3, criteria A
	EFT/Burst	EN61000-4-4	Level 3, criteria A
	Surge	EN61000-4-5	Level 4, 2kV L-N, criteria A
	Conducted	EN61000-4-6	Level 3, criteria A
	Magnetic Field	EN61000-4-8	Level 4, criteria A
	Voltage Dips and Interruptions	EN61000-4-11	>95% dip 0.5 periods, 30% dip 25 periods, >95% interruptions 250 periods

Dimensions & Weight	
Measurements	
Dimensions	104.5 x 62.1 x 30 mm
Cable (input)	1000±50mm
Cable (output)	UL 2464, 20AWG, 80°C, 300V VW-1, L=1800±50mm

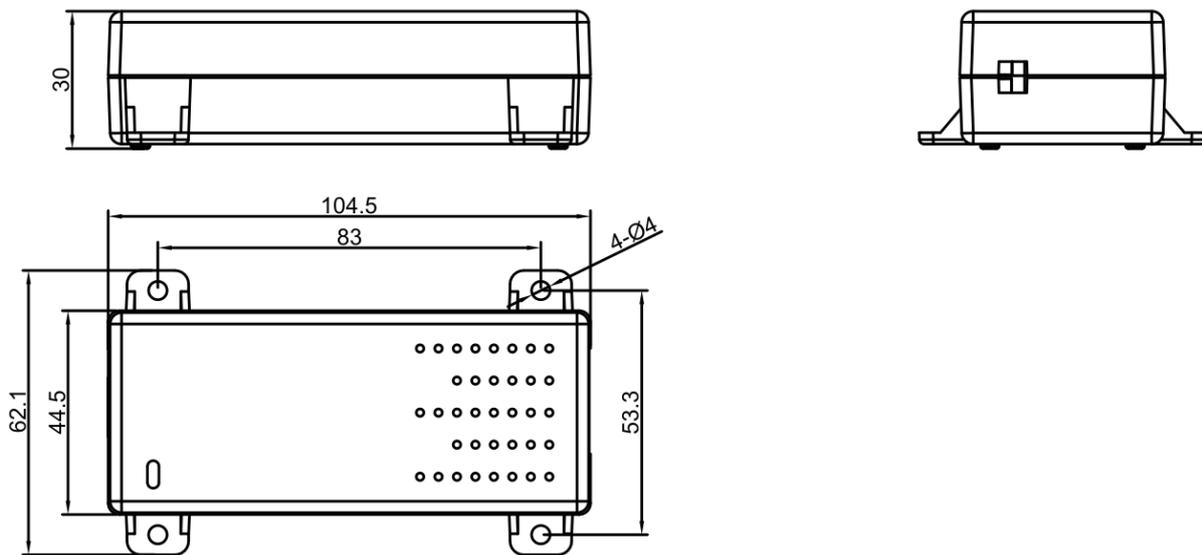
1. Derating Curve



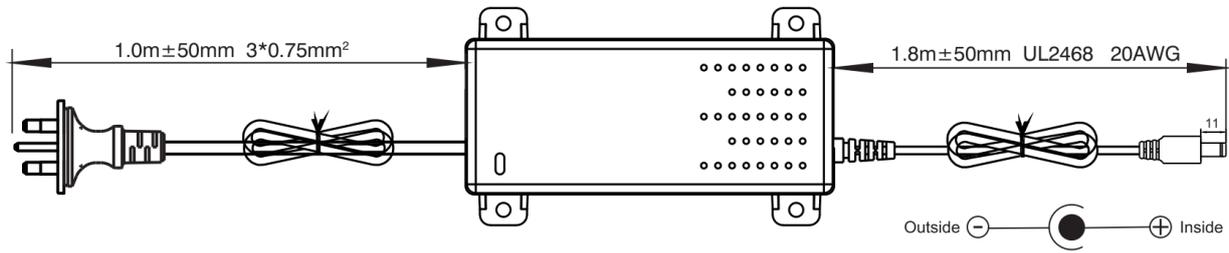
2. Static Characteristics



Outline Drawing



DC Cord Drawing



DC Output Plug (Option)

Standard Model : D1J

D1J	Pin Assignment
<p>5.5</p> <p>2.1</p> <p>12±0.5mm</p>	<p>C “+”</p> <p>Outside ⊖ ⊕ Inside</p>

Packaging

PLASTIC BAG



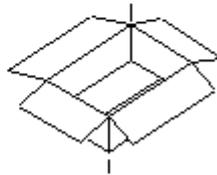
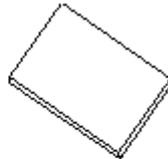
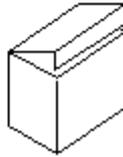
WHITE BOX



CARDBOARD



PAPER CASE



MECHANICAL DIMENSION:

	L(mm)	W(mm)	H(mm)
PLASTIC BAG	330	150	
WHITE BOX	230	130	55
CARDBOARD	470	285	
PAPER CASE	480	295	300

PACKING METHOD:

PACKING METHOD	5PCS/LAYER *4LAYERS
QTY	20PCS
<u>NW</u>	12.0Kg
<u>GW</u>	14.0Kg