

Features

- Wide Input Voltage Range 198-264V AC
- Approved to CE, RoHS, REACH
- EN 61347-1, EN 61347-2-13, EN 62493 Safety Approved
- 80% Efficiency
- Class II Power Supply
- Single Output 5-48V DC
- Energy efficiency level VI



56YS7C-vvva-a-E Series

6W External AC/DC EU Plugtop Adapter Power Supply



The 56YS7C-vvva-a-E Series is a dependable and suited for lighting integration External Power Supply (PSU) Adapter Plugtop AC/DC Power Supply. Designed for use in applications such as LED-based applications in commercial and industrial systems. This series is supplied with a EU Fixed input connection and supports input voltages

Models

Model	Voltage (V) DC	Rated Current	Rated Power	% Efficiency	Ripple and Noise mVp-
56YS7C-0501200	5	1.2	6	75	75
56YS7C-0601000	6	1	6	79	75
56YS7C-0900600	9	0.6	5.4	79	90
56YS7C-1200500	12	0.5	6	78.5	120
56YS7C-2400250	24	0.25	6	80	240

Input Specifications	
Input Voltage	198-264VAC
Frequency Range	50/60Hz
AC Current	0.2A/230VAC (Full Load)
Inrush Current	Cold Start 65A/200us at 230VAC
Leakage Current	<0.25mA/230VAC
Power Factor	PF>0.7/115VAC PF>0.7/230VAC
THD	<20%
No Load Power Consumption	<0.5W

Output Specifications	
Voltage Tolerance	±0.5%
Line Regulation	±0.3%
Load Regulation	±0.5%
Set up Time	1.0s/115VAC 230VAC (Full Load)
Pst	<1.0
SVM	<0.4

Protection	
Over Current	110~180% Hiccup mode , recovers automatically after fault condition is removed.
Over Voltage	105~135% Shut down o/p voltage, re-power on to recover.
Short Circuit	Hiccup mode , recovers automatically after fault condition is removed.

Environmental Characteristics	
Working Temp	Ta:-20~+45°C(Please refer to “Derating Curve”section)
MAX. Case TEMP.	Tc:85°C
Working Humidity	20~95% RH non-condensing
Storage Temp., Humidity	-40~+85°C, 10~95% RH non-condensing
Temp. Coefficient	±0.03%/°C (0~40°C)
Vibration	10 ~ 500Hz, 5G 12min./1cycle, period for 72min. each along X, Y, Z axes

Life	
Lifetime	>26280h@Tc=40°C,full load
MTBF	289.4Khrs min. MIL-HDBK-217F(25°C)

Safety & EMC	
Safety Standards	EN61347-1, EN61347-2-13, EN62493
Withstand Voltage	I/P-O/P: 3.75KVAC/1MIN
Isolation Resistance	I/P-O/P:100M Ohms / 500VDC / 25°C/ 70% RH
EMC Emission	EN IEC55015, EN61547, EN61000-3-3, EN61000-3-2
Protection Class	Class II

Notes:

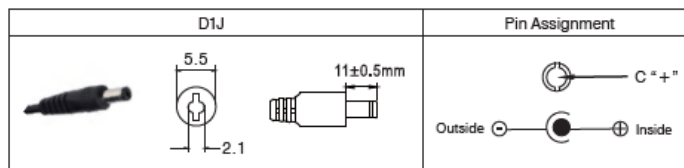
1. Tolerance: includes set up tolerance, line regulation and load regulation.
2. Tested at full load,230Vac. Refer to"Power Factor" and "Efficient"curve graphs.
3. Ripple & noise are measured at 20MHz of bandwidth by using a 12" twisted pair-wire terminated with a 0.1uf & 47uf parallel capacitor.
4. Calculate the model's average efficiency for each test voltage by testing at 100%, 75%, 50%, and 25% of rated current and then computing the simple arithmetic erage of these four values.
5. All parameters NOT specially mentioned are measured at nominal voltage input, rated load and 25°C of ambient temperature.
6. De-rating may be needed under low input voltages. Please refer to "Static Characteristic" sections for details.
7. Length of set up time is measured at first cold start. Turning ON/OFF the driver may lead to increase of the set up time.
8. The power supply is considered as a component that will be operated in combination with final equipment.Since EMC performance will be affected by the complete installation, the final equipment manufacturers must re-qualify EMC Directive on the complete installation again.

Dimensions & Weight	
Size	55.5 x 37.5 x 26.2 mm
Weight	150g/pcs;

Packaging	
Carton Size	41.5 x 25 x 17 cm
Master Carton Quantities	100pcs/carton


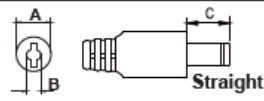
DC Output Plug (option)


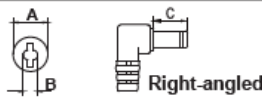
Standard Model : D1J



Optional DC plug:

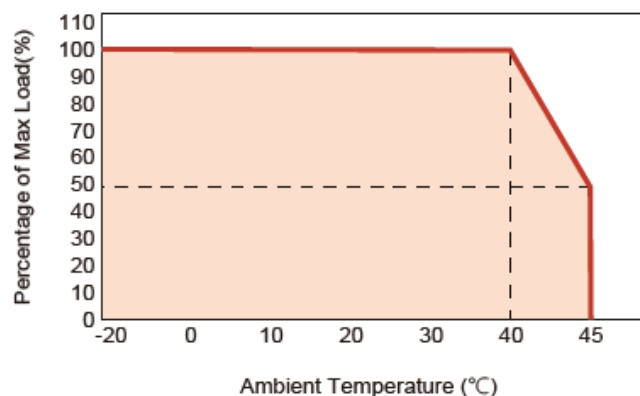
(Unit: mm , tolerance: ±0.5mm)

Tuning Fork Style			
Type No.	A	B	C
	OD	ID	L
D1I	5.5	2.1	9.5
D1L	5.5	2.5	9.5
D1M	5.5	2.5	11.0

Tuning Fork Style			
Type No.	A	B	C
	OD	ID	L
D1IR	5.5	2.1	9.5
D1JR	5.5	2.1	11.0
D1LR	5.5	2.5	9.5
D1MR	5.5	2.5	11.0

Derating Curve

1. Derating Curve



2. Static Characteristics

