

## Features

Universal Input 90-264V AC

Approved to CB, TUV-GS, CE & RoHS

IEC/EN62368-1 Safety Approved

Meets Efficiency Level VI

EMC Class B Certified

Single Output 7.5V DC

OVP, OLP, SCP



## 56YS16E-xy-RS

18W External AC/DC EU Plugtop Adapter Power Supply



The 56YS16E-xy-RS Series is a reliable and efficient 18W External AC/DC EU Plugtop Adapter Power Supply. Designed for use in applications such as telecoms, computing and multimedia systems. This series is supplied with a EU Fixed input connection and supports input voltages of 90~264V AC 50~60Hz.

### Model Number Information

56YS16                      xy                      E

Series Name                      Output Voltage                      EU plug

### Models

Model Number	DC Voltage (V)	Rated Current (A)	Rated Power (W)	Efficiency (%)	Ripple & Noise(max) (mVp-p)
56YS160503000E-D1J-RS	05	3	15	81.5%	60
56YS160902000E-D1J-RS	09	2	18	85.5%	90
56YS161201500E-D1J-RS	12	1.5	18	85.5%	120
56YS161501200E-D1J-RS	15	1.2	18	86%	150
56YS162400750E-D1J-RS	24	0.75	18	86%	240
56YS163600500E-D1J-RS	36	0.5	18	86.5%	300

Input Specifications	
Rated Voltage Range	100-240VAC
Voltage Range	90-264VAC
Frequency Range	50/60Hz
AC Current	0.5A/115VAC 0.3A/230VAC
Efficiency	81.5%
Inrush Current	Cold Start 65A/200us at 230VAC 50Hz Cold Start 30A/200us at 115VAC 50Hz
Leakage Current	<0.25mA/230VAC
No Load Power	<0.1W

Output Specifications	
Rated Current	2A
Rated Power	15W
Ripple & Noise(max.)	60mVp-p
Voltage Tolerance	+5%
Line Regulation	+3%
Load Regulation	+5%
Setup,Rise,Hold up Time	1.0s,60ms,30ms/230VAC(at full load) 2.5s,60ms,12ms/115VAC(at full load)

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 ~ +60°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	267.2Khrs min. MIL-HDBK-217F(25°C)

Safety & EMC			
Safety Standards	IEC/EN62368-1		
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	BS EN55032(CISPR32)	CLASS B
	Radiated	BS 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:

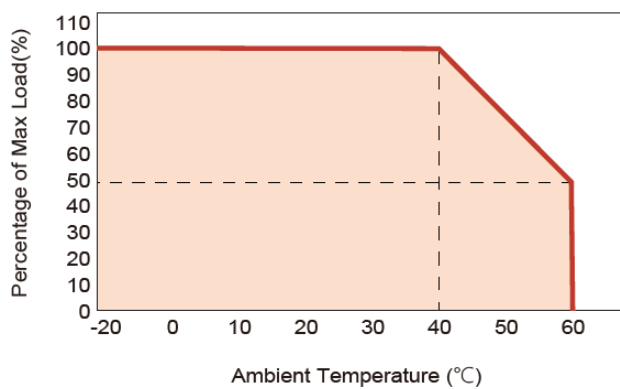
1. All parameters without special description are measured under the conditions of input 230VAC, rated load, ambient temperature 25 ° C, and ambient humidity less than 75%.
2. Ripple & noise are measured from peak to peak with a bandwidth limit of 20MHz(0.1uf and 47uf /50V parallel capacitor under DC 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
56YS16E-0752000-RS	70.35x45.23x29.7mm	132g/pcs

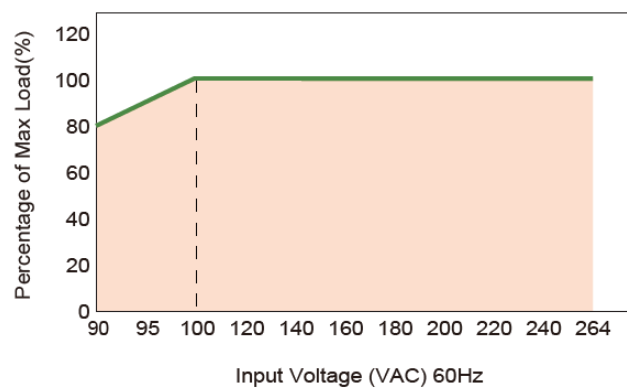
Packaging	
Carton Size	50x29x38cm
Master Carton Quantities	100pcs/carton

## Derating Curves

### 1. Derating Curve



### 2. Static Characteristics



## DC Output Plug (Option)

### Standard Model : D1J

D1J	Pin Assignment
