

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

18W External AC/DC EU Plugtop Adapter Power Supply



The 56YS16E-xy 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 | 05 | 3 | 15 | 81.5% | 60 |
| 56YS160902000E-D1J | 09 | 2 | 18 | 85.5% | 90 |
| 56YS161201500E-D1J | 12 | 1.5 | 18 | 85.5% | 120 |
| 56YS161501200E-D1J | 15 | 1.2 | 18 | 86% | 150 |
| 56YS162400750E-D1J | 24 | 0.75 | 18 | 86% | 240 |
| 56YS163600500E-D1J | 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:

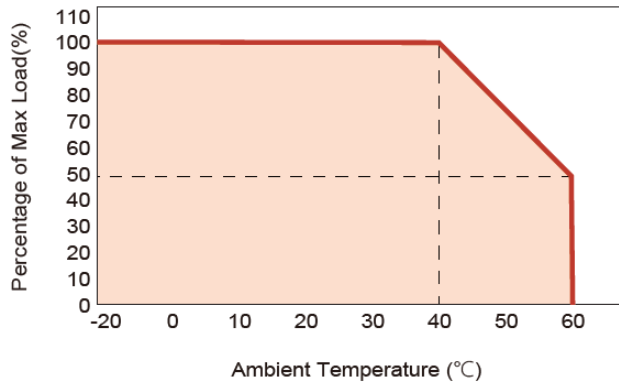
1. All parameters without special description are measured under the conditions of input 230VAC, rated load, ambient temperature 25 ° C, and ambient humidity less than 75%.
2. Ripple & noise are measured from peak to peak with a bandwidth limit of 20MHz(0.1uf and 47uf /50V parallel capacitor under DC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

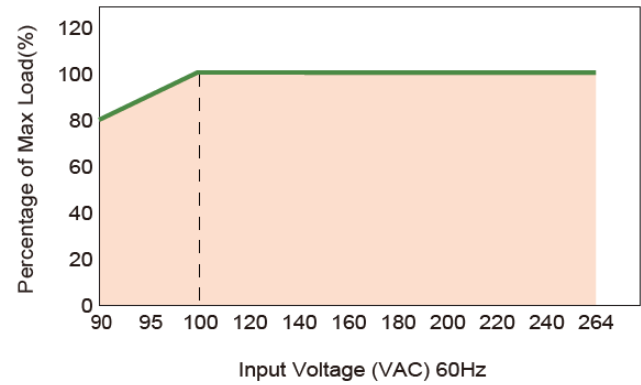
| Packaging | |
|--------------------------|---------------|
| Carton Size | 50x29x38cm |
| Master Carton Quantities | 100pcs/carton |

Derating Curves

1. Derating Curve


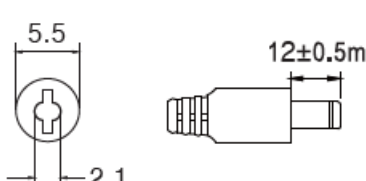
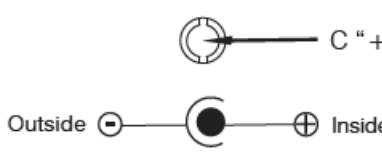


2. Static Characteristics



DC Output Plug (Option)

Standard Model : D1J

| D1J | Pin Assignment |
|---|--|
|   |  |