

Ua60 SERIES

60W Desk Top Switching Power Supplies For I.T. Equipment

Description:

The Ua60 series of DeskTop AC/DC switching-mode power supplies provide 60 Watts of continuous output power. They are ideally suited for use in CRT terminals, disc drive systems, microprocess or based systems, portable equipment and many other applications, all models are designed to meet the safety requirements of UL,C-UL, TUV and CE requirements. All units are 100% burned in and tested.



Features:

- Wide Input Voltage 90 to 264 VAC,47 to 63 Hz
- IEC-320-C14 Input Inlet
- Single output
- Output Voltage Available From 3 VDC Thru 50 VDC
- Optional Output Connector (See appendix)
- Input Surge Current, Over Voltage and Over Load protection
- Splash proof
- Class I Insulation
- Two Years Warranty

Safety Approvals :



Electrical Characteristics:

| Sym. | Parameter | Test Conditions | Min. | Typ. | Max. | Unit |
|-------|-------------------------------|---------------------------------------------|------------------|------|------|------|
| Vin | Input Voltage | | 90 | | 264 | VAC |
| Fin | Input Frequency | | 47 | | 63 | Hz |
| Wo | Output Power Range | Vin=90 to 264VAC | 0 | | 60 | W |
| Vo | Output Voltage Range | | See rating chart | | | V |
| Io | Output Current Range | | See rating chart | | | A |
| Ii l | Input Current (Low Line) | Io=Full load, Vin=115VAC | | | 1.6 | A |
| Iih | Input Current (High Line) | Io=Full load, Vin=230 VAC | | | 1.0 | A |
| Irl | Low Line Inrush Current | Io=Full load, 25°C , Cool start, Vin=115VAC | | 12 | 15 | A |
| Irh | High Line Inrush Current | Io=Full load, 25°C, Cool start, Vin=230VAC | | 26 | 30 | A |
| Eff | Efficiency | Io=Full Load, Vin=230VAC | 70 | 83 | 88 | % |
| REG i | Line Regulation | Io=Full Load | | 0.5 | 1 | % |
| REG o | Load Regulation | Vin=230VAC | | 3 | 7 | % |
| OVP | Over Voltage Protection | | 112 | | 132 | % |
| OCP | Over Current Protection | | 110 | | 150 | % |
| Ttr | Transient Response | Io=Full Load to HalfLoad, Vin=100VAC | | | 4 | mS |
| Thold | Hold - Up Time | Io=Full Load, Vin=100VAC | 16 | | | mS |
| Ts | Start Up Time | Io=Full Load, Vin=100VAC | 0.3 | 1 | 2 | S |
| Vrn | Ripple & Noise (Peak to Peak) | Full Load, Vin=90VAC | | 1 | 2 | % |
| Ilk | Safety Ground Leakage Current | Io=Full Load, Vin=240VAC | | 0.5 | 0.75 | mA |
| Tc | Temperature Coefficient | All output | - 0.04 | | 0.04 | %/°C |

Environmental :

| Sym. | Parameter | Test Conditions | Min. | Typ. | Max. | Unit |
|-------|----------------------------------------------------------|-----------------|------|------|------|------|
| Toper | Operating Temperature | | 0 | | 70 | °C |
| Tstg | Storage Temperature | | - 40 | | 85 | °C |
| Hr | Relative Humidity | | 5 | | 95 | % |
| Pd | Derate linearly from 100% load @ 40°C to 50%load at 70°C | | | | | |

Ua60 SERIES

60W Desk Top Switching Power Supplies For I.T. Equipment

Safety Specifications:

| Sym. | Parameter | Test Conditions | Min. | Typ. | Max. | Unit |
|-------|----------------------------------------------------------|-----------------------|------|------|------|-------|
| Vps | Dielectric Withstanding Voltage for Primary to secondary | Primary to secondary | 4242 | | | VDC |
| Vpg | Dielectric Withstanding Voltage for Primary to ground | Primary to ground | 2121 | | | VDC |
| Ri | Isolation Resistance | Test Voltage = 500VDC | 50 | | | MΩ |
| CISPR | EMI requirements for CISPR-22 | Vin=220VAC | B | | | CLASS |
| FCC | EMI requirements for FCC PART-15 | Vin=110VAC | B | | | CLASS |

Output Voltage And Current Rating Chart (Single Output) :

| Model Number | Output Voltage | Output Current | Total Regulation | Maximum Output Power |
|--------------|----------------|----------------|------------------|----------------------|
| Ua60-1003 | 3 ~ 5 VDC | 6.6 0 ~ 4.00 A | 7% | 20W |
| Ua60-1005 | 5 ~ 6 VDC | 6. 00 ~ 5.00 A | 5% | 30W |
| Ua60-1007 | 6 ~ 8 VDC | 5.83 ~ 4.37 A | 5% | 35W |
| Ua60-1009 | 8 ~ 11 VDC | 5.00 ~ 3.63 A | 5% | 40W |
| Ua60-1012 | 11 ~ 13 VDC | 4.54 ~ 3.84 A | 5% | 50W |
| Ua60-1012A | 11 ~ 13 VDC | 5.45 ~ 4.61A | 5% | 60W |
| Ua60-1015 | 13 ~ 16 VDC | 4.23 ~ 3.43 A | 5% | 55W |
| Ua60-1018 | 16 ~ 21 VDC | 3.75 ~ 2.85 A | 5% | 60W |
| Ua60-1024 | 21 ~ 27 VDC | 2.85 ~ 2.22 A | 5% | 60W |
| Ua60-1028 | 27 ~ 33 VDC | 2.22 ~ 1.81 A | 5% | 60W |
| Ua60-1035 | 33 ~ 40 VDC | 1.81 ~ 1.50 A | 3% | 60W |
| Ua60-1048 | 40 ~ 50 VDC | 1.50 ~ 1.20 A | 3% | 60W |

Mechanical Specifications :

Note:

1. Dimensions are shown in mm
2. Weight: 340gs approx.
3. Optional output connector consult eUrasia Power.

