

IPU63 SERIES

63W Desk Top Switching Power Supplies For Industrial Equipment

Description:

The IPU63 series of AC/DC switching mode power supplies provide 63Watts of continuous output power and is well-suited for a variety of applications. All supplies are UL 94V-1 min compliant. All models meet FCC Part-15 class B and CISPR-22 class B emission Limits and are designed to comply with UL/c-UL(UL 60950-1), TUV/GS(EN 60950-1) and new 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
- Optional Output Connector (See appendix)
- Over Voltage Protection (Crowbar Design)
- Splash proof
- Class I
- Altitude : 0 - 10,000 feet
- Energy Star 2.0, Efficiency level V
- Operating temperature -20~70°C
- 3 year warranty

Safety Approvals :



Electrical Characteristics:

| Sym. | Parameter | Test Conditions | Min. | Typ. | Max. | Unit |
|-------|-------------------------------|--|------------------|------|------|------|
| Vin | Input Voltage | Operating Voltage | 90 | | 264 | VAC |
| fin | Input Frequency | | 47 | | 63 | Hz |
| Po | Output Power Range | Vin=90 to 264VAC | 0 | | 63 | W |
| Vo | Output Voltage Range | | See rating chart | | | V |
| Io | Output Current Range | | See rating chart | | | A |
| Iil | Input Current (Low Line) | Io=Full load, Vin=115VAC | | | 1.6 | A |
| Iih | Input Current (High Line) | Io=Full load, Vin=230VAC | | | 0.7 | A |
| Irl | Low Line Inrush Current | Io=Full load, 25°C, Cool start, Vin=115VAC | | 31 | 35 | A |
| Irh | High Line Inrush Current | Io=Full load, 25°C, Cool start, Vin=230VAC | | 62 | 70 | A |
| Eff | Efficiency | Io=Full Load, Vin=230VAC | 84 | 88 | 91 | % |
| REG-i | Line Regulation | Io=Full Load | | 0.5 | 1 | % |
| REG-o | Load Regulation | Vin=230VAC | | 3 | 5 | % |
| OVP | Over Voltage Protection | | 112 | | 132 | % |
| OCP | Over Current Protection | | 102 | | 150 | % |
| Ttr | Time of Transient Response | Io=Full Load to Half Load, Vin=100VAC | | | 4 | mS |
| Thold | Hold-Up Time | Io=Full Load, Vin=110VAC | 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 | | 0.5 | 1 | % |
| 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 |
| Pno | No-Load Power Consumption | No load, Vin=240VAC | 0.1 | | 0.5 | W |

Environmental :

| Sym. | Parameter | Test Conditions | Min. | Typ. | Max. | Unit |
|-------|--|-----------------|-------|------|------|------|
| Toper | Operating Temperature | | -20 | | 70 | °C |
| Tstg | Storage Temperature | | -40 | | 85 | °C |
| Hr | Relative Humidity | | 5 | | 95 | % |
| MTBF | Operating Temperature at 25°C, Calculated per MIL-HDBK-217F | | 0.13M | | | Hrs |
| Pd | Derate linearly from 100% load at 40 °C to 50% load at 70 °C | | | | | |

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Safety Specifications:

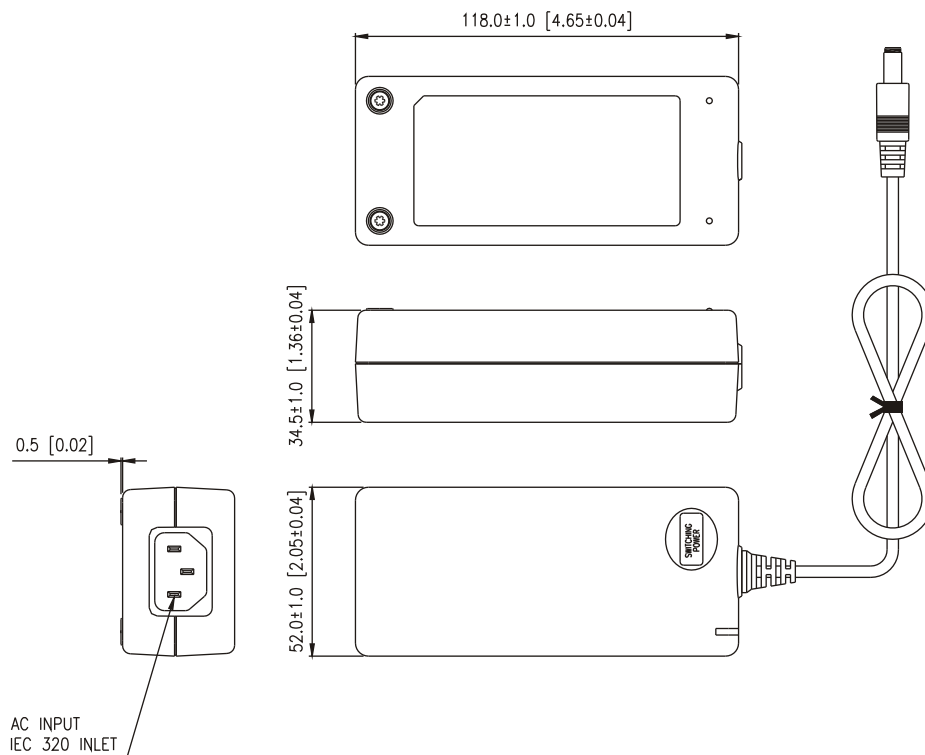
| Sym. | Parameter | Test Conditions | Min. | Typ. | Max. | Unit |
|-------|--|----------------------|------|------|------|-------|
| Vps | Dielectric Withstanding Voltage for Primary to secondary | Primary to secondary | 4242 | | | VDC |
| Vpg | Dielectric Withstanding Voltage for Primary to Ground | Primary to ground | 2121 | | | VDC |
| Ris | Isolation Resistance | Test Voltage=500VDC | 50 | | | M Ω |
| 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 ^① Regulation | Maximum Output Power |
|--------------|----------------|----------------|-------------------------------|----------------------|
| IPU63-105 | 12 ~ 14 VDC | 4.75 ~ 4.07 A | 5% | 57W |
| IPU63-106 | 15 ~ 16 VDC | 4.20 ~ 3.94 A | 5% | 63W |
| IPU63-107 | 16 ~ 21 VDC | 3.94 ~ 3.00 A | 5% | 63W |
| IPU63-108 | 21 ~ 27 VDC | 3.00 ~ 2.33 A | 5% | 63W |
| IPU63-109 | 27 ~ 33 VDC | 2.33 ~ 1.91 A | 5% | 63W |
| IPU63-110 | 33 ~ 40 VDC | 1.91 ~ 1.58 A | 3% | 63W |
| IPU63-111 | 40 ~ 50 VDC | 1.58 ~ 1.26 A | 3% | 63W |

① The total regulation on IPU63-105 is required to use AWG#16/4FT output cable.
The regulation will be changed by modified output cable.

Mechanical Specifications :



Note:

1. Dimensions are shown in mm.
2. Weight: 340gs approx.
3. Optional output connector: See page Appendix.