

IPD50 SERIES CLASS I

50 Watt
ITE Desktop Power Supply

- Safety Approval - EN60950-1 Class I
- High Efficiency: Level VI
- Hold-up Time >10ms at full load
- Fully Regulated DC output
- EuP Directive Compliant
- LED Indicator
- 1-Year Limited Warranty



| Model Number | Output Voltage | Output Current | Total Regulation ¹ | Typical Efficiency ² |
|--------------|----------------|----------------|-------------------------------|---------------------------------|
| IPD5012-760 | 12.0V | 4.25A | ±5% | 89.6% |
| IPD5015-760 | 15.0V | 3.3A | ±5% | 89.9% |
| IPD5018-760 | 18.0V | 2.8A | ±5% | 90.2% |
| IPD5019-760 | 19.0V | 2.6A | ±5% | 90.3% |
| IPD5024-760 | 24.0V | 2.1A | ±5% | 90.6% |

Notes

- 1) Includes initial setting, line regulation, load regulation, and thermal drift.
2) Typical at 115VAC

| INPUT | |
|---------------------------------|-------------------------------------|
| Input Voltage | 85 – 264VAC 100 – 240VAC Nominal |
| Input Frequency | 47 – 63Hz |
| Input Current | <1.0A rms |
| Inrush Current | <60A at 230VAC cold start |
| Zero Load Power Consumption | <0.1W |
| Earth Leakage Current (Typical) | <100µA @ 132VAC @ 60Hz |
| | <150µA @ 264VAC @ 60Hz |

| OUTPUT | |
|-----------------------------|--|
| Output Voltage | See Table |
| Total Regulation | +/-5% |
| Minimum Load | No minimum load required |
| Start-Up Delay | <1.5s |
| Hold-Up Time | >10ms at any input voltage |
| Ripple & Noise | <1% pk-pk ** |
| Over Voltage Protection | 112 – 135% |
| Over Temperature Protection | First Stage - Recoverable; plus 2nd stage - Non Recoverable |
| Over Current Protection | 108 – 180% |
| Short Circuit Protection | Shutdown, auto-restart (hiccup mode) |

Notes

**Ripple and noise measured with 20MHz bandwidth; 10µF tantalum capacitor in parallel with a 0.1µF ceramic capacitor.

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| General | |
|---------------|---|
| Efficiency | Avg. Efficiency 90.7% @ 115VAC; 89.8% @ 230VAC |
| MTBF | min. 100,000 hours calculated |
| Size | 4.48" (114.2mm) x 2.26" (57.5mm) x 1.43" (36.5mm) |
| Weight | 0.4 lbs (0.20 Kg) |
| Power Density | 3.43W/in ³ |

| Environmental | |
|-----------------------|---|
| Operating Temperature | 0 – 60°C (Full load to 40°C, derate linearly to 50% load at 60°C) |
| Storage Temperature | -40°C to +85°C |
| Relative Humidity | 5-95%, non-condensing |
| Cooling | Natural Convection |
| Altitude (Operating) | Rated to 5000M |

| EMC & Safety | |
|------------------------------------|--|
| Emissions | FCC class B, CISPR22 class B EN6100-3-2, 3 |
| Immunity | EN61000-4-2, -3, -4, -5, -6, -8, -11 |
| Certified by TUV to the following: | cTUVus |
| | UL 606950-1 |
| | CAN/CSA-22.2 No.950 |
| | CB per IEC60950-1 2nd edition |
| | CE marked to LVD directive and RoHS II directive |

| Input Configuration | |
|---------------------------------|------------------------|
| Standard Input Cable | Not Provided |
| Connection on Power Supply Body | IEC 320 C14 Receptacle |

| Output Configuration | |
|-----------------------|-------------------------------|
| Standard Output Cable | 4ft |
| Cord Size | 2x16awg zip |
| Connector (PSU side) | Switchcraft 760 or equivalent |
| Mating Connector | Switchcraft 760 or equivalent |

| Output Pin Assignments | |
|------------------------|--------|
| Center | +V1 |
| Outside | Return |


