

## 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 <sup>1</sup> | Typical Efficiency <sup>2</sup> |
|--------------|----------------|----------------|-------------------------------|---------------------------------|
| 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<br>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<br><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<br>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.

# IPD50 SERIES - CLASS I

50 Watt

ITE Desktop Power Supply

**inVENTUS**<sup>TM</sup>  
POWER

| General       |                                                   | Environmental         |                                                                   | EMC & Safety                       |                                                  |
|---------------|---------------------------------------------------|-----------------------|-------------------------------------------------------------------|------------------------------------|--------------------------------------------------|
| Efficiency    | Avg. Efficiency 90.7% @ 115VAC; 89.8% @ 230VAC    | Operating Temperature | 0 – 60°C (Full load to 40°C, derate linearly to 50% load at 60°C) | Emissions                          | FCC class B, CISPR22 class B EN6100-3-2, 3       |
| MTBF          | min. 100,000 hours calculated                     | Storage Temperature   | -40°C to +85°C                                                    | Immunity                           | EN61000-4-2, -3, -4, -5, -6, -8, -11             |
| Size          | 4.48" (114.2mm) x 2.26" (57.5mm) x 1.43" (36.5mm) | Relative Humidity     | 5-95%, non-condensing                                             | Certified by TUV to the following: | cTUVus                                           |
| Weight        | 0.4 lbs (0.20 Kg)                                 | Cooling               | Natural Convection                                                |                                    | UL 606950-1                                      |
| Power Density | 3.43W/in <sup>3</sup>                             | Altitude (Operating)  | Rated to 5000M                                                    |                                    | CAN/CSA-22.2 No.950                              |
|               |                                                   |                       |                                                                   |                                    | CB per IEC60950-1 2nd edition                    |
|               |                                                   |                       |                                                                   |                                    | CE marked to LVD directive and RoHS II directive |

| Input Configuration             |                        | Output Configuration  |                               | Output Pin Assignments                                                              |        |
|---------------------------------|------------------------|-----------------------|-------------------------------|-------------------------------------------------------------------------------------|--------|
| Standard Input Cable            | Not Provided           | Standard Output Cable | 4ft                           | Center                                                                              | +V1    |
| Connection on Power Supply Body | IEC 320 C14 Receptacle | Cord Size             | 2x16awg zip                   | Outside                                                                             | Return |
|                                 |                        | Connector (PSU side)  | Switchcraft 760 or equivalent |  |        |
|                                 |                        | Mating Connector      | Switchcraft 760 or equivalent |                                                                                     |        |

