



Features :

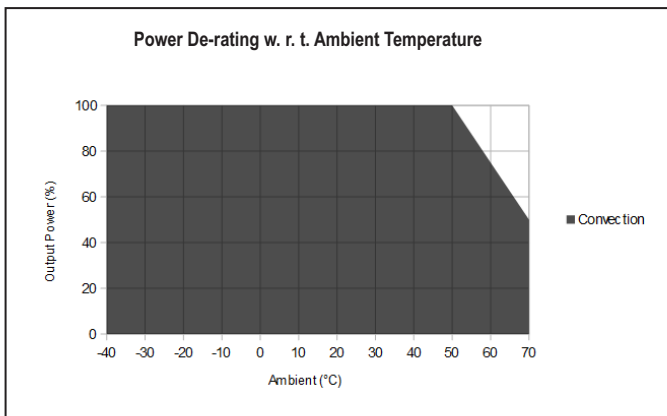
- Supports 90 - 264 VAC / 127 - 373 VDC
- Efficiency up to 86 %
- - 40°C to + 70°C Operating Temperature
- Compact size and 1U low profile
- Protection against short circuit, overload & overvoltage
- Cooling by free air convection

Certification :

SPECIFICATIONS:

| MODEL | | TPS50-24 |
|--------------|---|--|
| OUTPUT | NOMINAL DC VOLTAGE | 24 V |
| | RATED CURRENT | 2.2 A |
| | RATED POWER | 52.8 W |
| | RIPPLE & NOISE (max) | < 1 % of Vout |
| | VOLTAGE ADJ. RANGE | 24 V to 28 V |
| | VOLTAGE TOLERANCE | ± 1 % |
| | LINE REGULATION | ± 1 % |
| | LOAD REGULATION | ± 1 % |
| | TURN ON TIME | < 3 sec ; at full load |
| | HOLD UP TIME | ≥ 60 ms at 230 VAC & ≥ 10 ms at 115 VAC, Full load |
| RISE TIME | < 100 ms | |
| INPUT | VOLTAGE RANGE | 90 - 264 VAC / 127 - 373 VDC |
| | FREQUENCY RANGE | 47 - 63 Hz |
| | EFFICIENCY @ 230 VAC | Up to 86 % |
| | AC CURRENT | 0.9 A @ 115 VAC; 0.50 A @ 230 VAC |
| | INRUSH CURRENT | < 45 Amps; Measured at 230 VAC, 25°C Ambient, Cold start |
| | LEAKAGE CURRENT | < 1 mA; 240 VAC input |
| | NO LOAD POWER CONSUMPTION | < 0.5 W; 115 VAC input |
| PROTECTION | OVERLOAD | > 110 % of rated output current; Hiccup mode; Autorecovery type. |
| | OVERVOLTAGE | 28.5 - 33.5 VDC Hiccup mode; Autorecovery type. |
| | OUTPUT SHORT CIRCUIT | Hiccup mode when output is shorted; Autorecovery type. |
| ENVIRONMENT | OPERATING TEMP | - 40°C to + 70°C; De-rate linearly above 50°C from 100 % load at 50°C to 50 % load at 70°C, - 40°C to 0°C startup is guaranteed with spec deviation (Output ripple can be more than 10 % of the output voltage.) |
| | STORAGE TEMP | - 40°C to + 85°C |
| | COOLING | Natural convection |
| | HUMIDITY | 5 to 95 % RH, Non condensing |
| | ALTITUDE | 2000 m |
| VIBRATION | Component: 10 ~ 500 Hz, 2 G 10 min. / 1 cycle, period for 60 min. each along X, Y, Z axes | |
| SAFETY & EMC | DIELECTRIC WITH STAND VOLTAGE | I/P to Earth : 2500 VAC I/P to O/P : 4000 VAC O/P to Earth : 1500 VAC |
| MECHANICAL | DIMENSION | 99 x 82 x 30 mm (L x W x H) |
| | WEIGHT | < 230 gms |
| | MOUNTING | Table Top |

De-rating curve



Connectors details

| Ref Des | Pin number | Function |
|---------|------------|-------------|
| TRL1 | 1 | AC Line |
| | 2 | AC Neutral |
| | 3 | Earth |
| | 4 | V1 Negative |
| | 5 | V1 Positive |

Compliance

| Applicable EMI / EMC Standards | | |
|-----------------------------------|------------------------------|--|
| Category | Reference Standards | Testing Level |
| Conducted Emission | CISPR32 | CLASS B |
| Radiated Emission | CISPR32 | CLASS A |
| Electrostatic Discharge | IEC 61000-4-2 | Level 4, Criteria A Level 3, Criteria A |
| Radiated Susceptibility | IEC 61000-4-3 | Level 3, Criteria B |
| Electrical Fast Transient / Burst | IEC 61000-4-4 | Level 3, Criteria A |
| Surge | IEC 61000-4-5 | Level 3, Criteria A |
| Conducted Susceptibility | IEC 61000-4-6 | Level 3, Criteria B |
| Power Frequency Magnetic Field | IEC 61000-4-8 | Level 4, Criteria A |
| Voltage Dips & Interruption | IEC 61000-4-11 | Criteria A & B |
| Safety | Designed to meet IEC 62368-1 | |

Ordering information

| Product Code | Description | Certification |
|--------------|--|---------------|
| TPS50-24 | 52.8 W, 24 V / 2.2 A Table Top Power Supply in metal body. | CE |

Mechanical dimensions

