MEAN WEITZ

# 30W Triple Output Switching Power Supply

# T-30 series

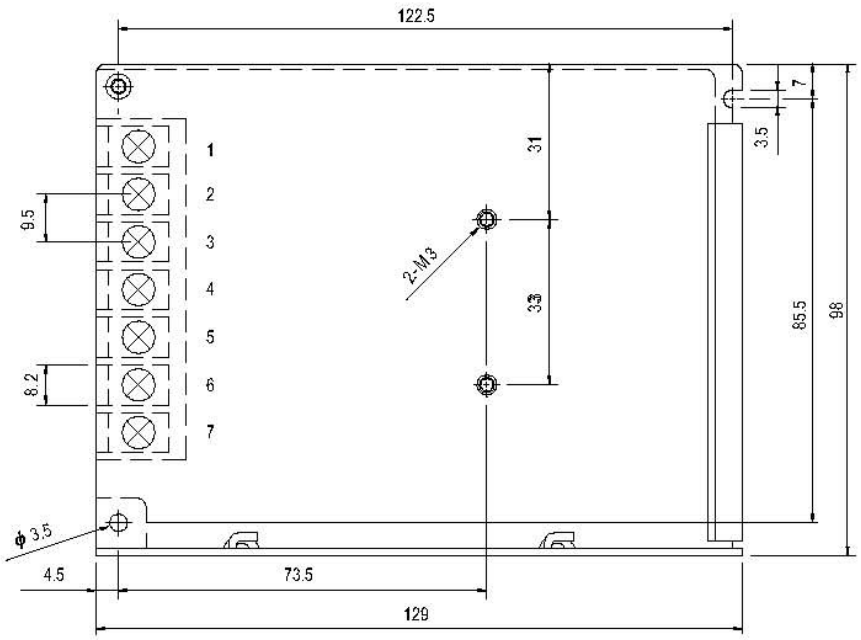
**Features :**

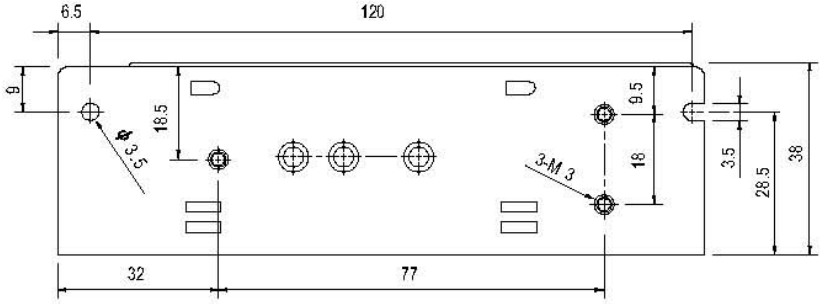
AC input range selected by switch
Protections: Short circuit/Over load
Cooling by free air convection
LED indicator for power on
Fixed switching frequency at 23KHz

| MODEL | | T-30A | | | T-30B | | |
|---|---|---|---|---|---|---|---|
| OUTPUT | DC VOLTAGE | 5V | 12V | -5V | 5V | 24V | -12V |
| | RATED CURRENT | 3A | 1A | 0.5A | 3A | 1A | 0.5A |
| | CURRENT RANGE | 0.5 ~ 3A | 0.1 ~ 1A | 0.1 ~ 0.5A | 0.5 ~ 3A | 0.1 ~ 1A | 0.1 ~ 0.5A |
| | RATED POWER | 30W | | | 33W | | |
| | RIPPLE & NOISE (max.) Note.2 | 50mVp-p | 100mVp-p | 50mVp-p | 50mVp-p | 100mVp-p | 100mVp-p |
| | VOLTAGE ADJ. RANGE | CH1:4.75 ~ 5.5V | | | CH1:4.75 ~ 5.5V | | |
| | VOLTAGE TOLERANCE Note.3 | ±2.0% | +2,-6% | +2,-10% | ±2.0% | +2,-6% | ±6% |
| | LINE REGULATION | ±0.5% | ±1.0% | ±0.5% | ±0.5% | ±1.0% | ±1.0% |
| | LOAD REGULATION | ±0.5% | ±5.0% | ±5.0% | ±0.5% | ±5.0% | ±5.0% |
| | SETUP, RISE, HOLD TIME | 200ms,100ms, 30ms at full load | | | | | |
| INPUT | VOLTAGE RANGE | 85 ~ 132VAC / 170 ~ 264VAC selected by switch 240 ~ 370VDC | | | | | |
| | FREQUENCY RANGE | 47 ~ 63Hz | | | | | |
| | EFFICIENCY (Typ.) | 70% | | | 72% | | |
| | AC CURRENT | 0.8A/115VAC 0.45A/230VAC | | | | | |
| | INRUSH CURRENT (max.) | COLD START 18A/115VAC 36A/230VAC | | | | | |
| | LEAKAGE CURRENT | <0.75mA / 240VAC | | | | | |
| PROTECTION | OVERLOAD | 105 ~ 150% rated output power. | | | | | |
| | | Protection type : Fold back current limiting, recovers automatically after fault condition is reoved | | | | | |
| ENVIRONMENT | WORKING TEMP. | -10 ~ +60℃ (Refer to output load derating curve) | | | | | |
| | WORKING HUMIDITY | 20 ~ 90% RH non-condensing | | | | | |
| | STORAGE TEMP., HUMIDITY | -20 ~ +85℃ , 10 ~ 95% RH | | | | | |
| | TEMP. COEFFICIENT | ±0.03%/°C (0 ~ 50°C) | | | | | |
| | VIBRATION | 10 ~ 500Hz, 2G 10min./1cycle, 60min. each along X, Y, Z axes | | | | | |
| SAFETY & EMC | SAFETY STANDARDS | Design refer to UL1012 | | | | | |
| | WITHSTAND VOLTAGE | I/P-O/P:1.5KVAC I/P-FG:1.5KVAC O/P-FG:0.5KVAC | | | | | |
| | ISOLATION RESISTANCE | I/P-O/P, I/P-FG, O/P-FG:100M Ohms/500VDC | | | | | |
| | EMI CONDUCTION & RADIATION | Design refer to FCC Part15 J Conduction | | | | | |
| OTHERS | MTBF | 463.1K hrs min. MIL-HDBK-217F (25℃) | | | | | |
| | DIMENSION | 129*98*38mm (L*W*H) | | | | | |
| | PACKING | 0.387Kg; 45pcs/19.46Kg/0.0326CMB | | | | | |
| NOTE | 1. All parameters NOT specially mentioned are measured at 230VAC input, rated load and 25 °C of ambient temperature. | | | | | | |
| | 2. Ripple & noise are measured at 20MHz of bandwidth by using a 12" twisted pair-wire terminated with a 0.1uf & 47uf parallel capacitor. | | | | | | |
| | 3. Tolerance : includes set up tolerance, line regulation and load regulation. | | | | | | |

## ■ Mechanical Specification

Unit:mm

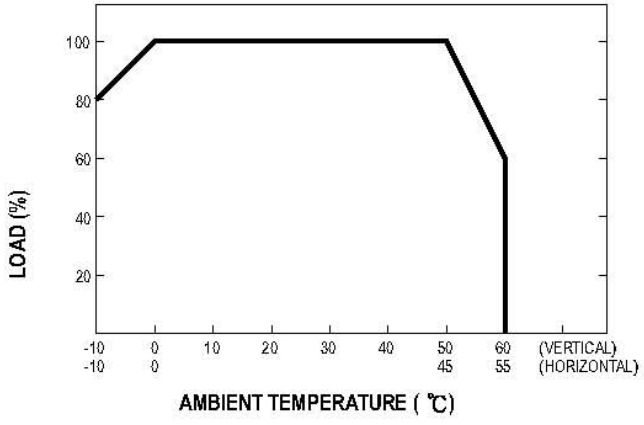



Terminal Pin. No Assignment

| Pin No. | Assignment | Pin No. | Assignment | Pin No. | Assignment |
|---|---|---|---|---|---|
| 1 | AC/L | 4 | DC OUTPUT-V | 7 | DC OUTPUT+V1 |
| 2 | AC/N | 5 | DC OUTPUT+V2 | | |
| 3 | FG ⏚ | 6 | DC OUTPUTCOM | | |

## ■ Output Derating




## ■ Static Characteristics (B)