



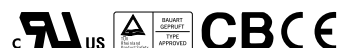
## 104W Triple Output Switching Power Supply

# MWP-606(A)



### ■ Features :

- Universal AC input/Full range
- Protections:Short circuit/Over load
- Cooling by free air convection
- 2 years warranty



### SPECIFICATION

| MODEL                    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | MWP-606(A)                                                                                                                             |          |          |
|--------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------|----------|----------|
| OUTPUT                   | OUTPUT NUMBER                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | CH1                                                                                                                                    | CH2      | CH3      |
|                          | DC VOLTAGE                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 5V                                                                                                                                     | 12V      | -5V      |
|                          | RATED CURRENT                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 15A                                                                                                                                    | 2A       | 1A       |
|                          | CURRENT RANGE                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 3 ~ 15A                                                                                                                                | 0.2 ~ 4A | 0.1 ~ 1A |
|                          | RATED POWER                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 104W                                                                                                                                   |          |          |
|                          | RIPPLE & NOISE (max.) Note.2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 50mVp-p                                                                                                                                | 120mVp-p | 60mVp-p  |
|                          | VOLTAGE ADJ. RANGE                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | CH1: 4.75 ~ 5.5V                                                                                                                       |          |          |
|                          | VOLTAGE TOLERANCE Note.3                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | ±2.0%                                                                                                                                  | ±8.0%    | ±10%     |
|                          | LINE REGULATION                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | ±0.5%                                                                                                                                  | ±1.0%    | ±1.0%    |
|                          | LOAD REGULATION                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | ±1.0%                                                                                                                                  | ±6.0%    | ±8.0%    |
|                          | SETUP, RISE, HOLD TIME                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 200ms, 50ms, 16ms at full load                                                                                                         |          |          |
| INPUT                    | VOLTAGE RANGE                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 88 ~ 132VAC/176 ~ 264VAC selected by switch      124 ~ 370VDC                                                                          |          |          |
|                          | FREQUENCY RANGE                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 47 ~ 63Hz                                                                                                                              |          |          |
|                          | EFFICIENCY (Typ.)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 75%                                                                                                                                    |          |          |
|                          | AC CURRENT                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 2.6A/115VAC      1.3A/230VAC                                                                                                           |          |          |
|                          | INRUSH CURRENT (max.)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | COLD START 20A/115VAC      40A/230VAC                                                                                                  |          |          |
|                          | LEAKAGE CURRENT                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | <0.5mA / 240VAC                                                                                                                        |          |          |
| PROTECTION               | OVER LOAD                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 105 ~ 150% rated output power<br>Protection type : Fold back current limiting, recovers automatically after fault condition is removed |          |          |
| FUNCTION                 | OPERATING DISPLAY                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | Double color LED correct Range: Green(5~5.4Vref.); Wrong Range: Red                                                                    |          |          |
| ENVIRONMENT              | WORKING TEMP.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | -10 ~ +60℃                                                                                                                             |          |          |
|                          | WORKING HUMIDITY                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | 20 ~ 90% RH non-condensing                                                                                                             |          |          |
|                          | STORAGE TEMP., HUMIDITY                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | -20 ~ +85℃, 10 ~ 95% RH                                                                                                                |          |          |
|                          | TEMP. COEFFICIENT                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | ±0.05%/℃ (0 ~ 50℃) on +5V output                                                                                                       |          |          |
|                          | VIBRATION                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 10 ~ 500Hz, 2G 10min./1cycle, 60min. each along X, Y, Z axes                                                                           |          |          |
| SAFETY & EMC<br>(Note 4) | SAFETY STANDARDS                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | UL60950-1, TUV EN60950-1 Approved                                                                                                      |          |          |
|                          | 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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | Compliance to EN55022 (CISPR22) Class B                                                                                                |          |          |
|                          | HARMONIC CURRENT                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | Compliance to EN61555-2,-3                                                                                                             |          |          |
|                          | EMS IMMUNITY                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | Compliance to IEC801-2,3,4, Light industry level, criteria A                                                                           |          |          |
| OTHERS                   | MTBF                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 348.3K hrs min.    MIL-HDBK-217F (25℃)                                                                                                 |          |          |
|                          | DIMENSION                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 180*110*50mm (L*W*H)      203*115*50mm(L*W*H) with terminal & fixed iron                                                               |          |          |
|                          | PACKING                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 0.9Kg; 16pcs/15.4Kg/0.95CUFT                                                                                                           |          |          |
| NOTE                     | 1. All parameters NOT specially mentioned are measured at 230VAC input, rated load and 25℃ of ambient temperature.<br>2. Ripple & noise are measured at 20MHz of bandwidth by using a 12" twisted pair-wire terminated with a 0.1uf & 47uf parallel capacitor.<br>3. Tolerance : includes set up tolerance, line regulation and load regulation.<br>4. Load regulation is measured from 20% to 100% rated load, and other output at 60% rated load.<br>5. The power supply is considered a component which will be installed into a final equipment. The final equipment must be re-confirmed that it still meets EMC directives. |                                                                                                                                        |          |          |