

# ELJINTEK, INC.

## SWITCH MODE POWER SUPPLY

### GMPU12X-1 SPECIFICATION

#### 1)INPUT:

|                          |                        |
|--------------------------|------------------------|
| A) INPUT VOLTAGE RANGE   | 100 TO 240VAC          |
| B) INPUT FREQUENCY RANGE | 47 TO 63 HZ            |
| C) INPUT CURRENT         | 0.4-0.2A MAX           |
| D) LEAKAGE CURRENT       | 0.1mA MAX.@240VAC/50HZ |

#### 2)OUTPUT:

|                            |                                                        |
|----------------------------|--------------------------------------------------------|
| A) OUTPUT VOLTAGE          | +5VDC                                                  |
| B) OUTPUT CURRENT          | 2.4 AMPS                                               |
| C) OUTPUT POWER            | 12WATTS MAX                                            |
| D) RIPPLE & NOISE          | 100mVp-p MAX.<br>( PEAK TO PEAK MAXIMUM)(AT 20MHZ B.W) |
| E) LOAD REGULATION         | 4.75 TO 5.25 VDC(±5% MAXIMUM)                          |
| F) OVER VOLTAGE PROTECTION | YES. PROTECTED BY ZENER DIODE.                         |
| G) OVER CURRENT PROTECTION | YES. HICCUP MODE; AUTO-RECOVERY.                       |
| H) OUTPUT SHORT PROTECTION | YES. HICCUP MODE; AUTO-RECOVERY.                       |

#### 3)ENVIRONMENTAL:

|                          |                                          |
|--------------------------|------------------------------------------|
| A) OPERATING TEMPERATURE | -20 TO +40℃                              |
| B) STORAGE TEMPERATURE   | -40 TO +85℃                              |
| C) RELATIVE HUMIDITY     | 5% TO 95% NON-CONDENSING                 |
| D) DERATING              | FROM +40℃ DERATE LINEARLY TO 70% AT +50℃ |

#### 4)GENERAL:

|                              |                                                                                                                              |
|------------------------------|------------------------------------------------------------------------------------------------------------------------------|
| A) EFFICIENCY                | AVG. EFF. 79.94% MIN. AT 115VAC /230VAC                                                                                      |
| B) NO LOAD POWER CONSUMPTION | < 0.1W                                                                                                                       |
| C) HOLD-UP TIME              | 10 m SEC / 115VAC AT FULL LOAD                                                                                               |
| D) LINE REGULATION           | +1% MAXIMUM AT FULL LOAD                                                                                                     |
| E) INRUSH CURRENT            | 50AMPS MAX. / 115VAC ; 90AMPS MAX. / 230VAC<br>AT 25℃ COLD START                                                             |
| F) WITHSTAND VOLTAGE         | 5656VDC FROM INPUT TO OUTPUT                                                                                                 |
| G) INSULATION RESISTANCE     | 50MΩ MINIMUM FROM INPUT TO GROUND                                                                                            |
| H) MEAN TIME BETWEEN FAILURE | 100,000 HOURS MIN. AT FULL LOAD AT 25℃<br>AMBIENT                                                                            |
| I) EMC REGULATIONS           | (A)EN55011<br>(B)EN60601-1-2 、 EN61000-3-2 、 EN61000-3-3<br>(C)IEC61000-4-2,3,4,5,6,8,11<br>(D) FCC 47 CFR PART 18 SUBPART B |
| J) SAFETY STANDARD           | (A) UL/cUL(ANSI/AMMI ES6061-1)<br>(B) TUV EN60601-1<br>(C) IEC60601-1                                                        |
| K) ENERGY REQUIREMENTS       | (A) DoE LEVEL VI (B) CoC VERSION 5<br>(C) ErP STEP 2                                                                         |

#### 5)CONSTRUCTIONS:

|                             |                  |
|-----------------------------|------------------|
| (A) SIZE                    | SHOWN AS DRAWING |
| (B) ELECTRICAL CONSTRUCTION | CLASS II         |