

# ELJINTEK, INC.

## SWITCH MODE POWER SUPPLY

### GMPU60X-1 SPECIFICATION

#### 1)INPUT:

|                          |                                      |
|--------------------------|--------------------------------------|
| A) INPUT VOLTAGE RATING  | 100 TO 240VAC (LIMIT: 90 TO 264 VAC) |
| B) INPUT FREQUENCY RANGE | 47 TO 63 HZ                          |
| C) INPUT CURRENT         | 1.5 – 0.8A                           |
| D) LEAKAGE CURRENT       | 0.1mA MAX.@240VAC/50HZ               |

#### 2)OUTPUT:

|                            |                                  |
|----------------------------|----------------------------------|
| A) OUTPUT VOLTAGE          | +5.0VDC                          |
| B) OUTPUT CURRENT          | 6.0A MAX.                        |
| C) OUTPUT POWER RANGE      | 30W MAX                          |
| D) RIPPLE & NOISE          | 120mVp-p MAX. (20MHZ BW)         |
| E) LOAD REGULATION         | 4.75VDC~5.25VDC(±5% MAXIMUM)     |
| F) OVER VOLTAGE PROTECTION | YES. PROTECTED BY ZENER DIODE.   |
| G) OVER CURRENT PROTECTION | YES. HICCUP MODE; AUTO-RECOVERY. |
| G) OUTPUT SHORT PROTECTION | YES. HICCUP MODE; AUTO-RECOVERY. |

#### 3)ENVIRONMENTAL:

|                          |                                            |
|--------------------------|--------------------------------------------|
| A) OPERATING TEMPERATURE | -20 TO +70°C ( SAFETY APPROVAL 0 TO 40°C ) |
| B) STORAGE TEMPERATURE   | -10 TO +85°C                               |
| C) RELATIVE HUMIDITY     | 5% TO 95% NON-CONDENSING                   |
| D) DERATING              | FROM +40°C DERATE LINEARLY TO 50% AT +70°C |

#### 4)GENERAL:

|                              |                                                                                               |
|------------------------------|-----------------------------------------------------------------------------------------------|
| A) EFFICIENCY                | AVG. EFF. 81.6% MINIMUM AT 115VAC /23VAC                                                      |
| B) NO LOAD POWER CONSUMPTION | < 0.1W                                                                                        |
| C) HOLD-UP TIME              | 10mSEC MIN./ 115VAC AT FULL LOAD                                                              |
| D) LINE REGULATION           | ±1% MAXIMUM AT FULL LOAD                                                                      |
| E) INRUSH CURRENT            | 90A MAX @ 230VAC AT 25°C COLD START                                                           |
| F) WITHSTAND VOLTAGE         | 5656 VDC FROM INPUT TO OUTPUT                                                                 |
| G) INSULATION RESISTANCE     | 50 MΩ MINIMUM FROM INPUT TO GROUND                                                            |
| H) MEAN TIME BETWEEN FAILURE | 100,000 HOURS MIN.AT FULL LOAD AT 25°C                                                        |
| I) EMC REGULATIONS           | (A) IEC61000-3-2,3 ,IEC61000-4-2,3,4,5,6,8,11<br>(B) CISPR 11 (C) FCC 47 CFR Part18 Subpart B |
| J) SAFETY STANDARD           | (A)ASNI/AAMI ES60601-1<br>(B)CAN/CSA C22.2 NO.60601-1 (C)EN60601-1<br>(D)IEC 60601-1          |
| K) ENERGY REQUIREMENTS       | (A)DoE LEVEL VI (B) CoC VERSION 5<br>(C)ErP STEP 2                                            |
| L) WARRANTY                  | 2 YEARS (100% LOAD 40°C ,12HOURS/DAY )                                                        |

#### 5)CONSTRUCATIONS:

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