

# ELJINTEK, INC.

## SWITCH MODE POWER SUPPLY

### GPSU60X-2(UL/EN62368) SPECIFICATION

#### 1)INPUT:

|                          |                        |
|--------------------------|------------------------|
| A) INPUT VOLTAGE RANGE   | 100 TO 240VAC          |
| B) INPUT FREQUENCY RANGE | 47 TO 63 HZ            |
| C) INPUT CURRENT         | 1.5A MAX               |
| D) LEAKAGE CURRENT       | 0.1mA MAX.@240VAC/50HZ |

#### 2)OUTPUT:

|                            |                                                       |
|----------------------------|-------------------------------------------------------|
| A) OUTPUT VOLTAGE          | +9VDC                                                 |
| B) OUTPUT CURRENT          | 5.5AMPS                                               |
| C) OUTPUT POWER            | 49.5WATTS MAX                                         |
| D) RIPPLE & NOISE          | 80mVp-p MAX.<br>( PEAK TO PEAK MAXIMUM)(AT 20MHZ B.W) |
| E) LOAD REGULATION         | 8.55TO 9.45VDC(±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 | 0 TO +40°C                                 |
| B) STORAGE TEMPERATURE   | -40 TO +85°C                               |
| C) RELATIVE HUMIDITY     | 5% TO 95% NON-CONDENSING                   |
| D) DERATING              | FROM +40°C DERATE LINEARLY TO 70% AT +50°C |

#### 4)GENERAL:

|                              |                                                                                                                                                   |
|------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------|
| A) EFFICIENCY                | AVG. EFF. 88% MIN. AT 115/230VAC<br>EFF. 79% MINIMUM AT 230VAC@10%LOAD                                                                            |
| B) NO LOAD POWER CONSUMPTION | < 0.21W                                                                                                                                           |
| C) HOLD-UP TIME              | 10 m SEC / 115VAC AT FULL LOAD                                                                                                                    |
| D) LINE REGULATION           | 1% MAXIMUM AT FULL LOAD                                                                                                                           |
| E) INRUSH CURRENT            | 100AMPS MAX. / 230VAC AT 25°C COLD START                                                                                                          |
| F) WITHSTAND VOLTAGE         | 4242VDC 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°C AMBIENT                                                                                                   |
| I) EMC REGULATIONS           | A) EN55032: 2015+A1+A11: 2020 , Class B<br>EN55035: 2017+A11: 2020<br>EN61000-3-2,3,IEC61000-4-2,3,4,5,6,8,11<br>(B) FCC 47 CFR PART 15 SUBPART B |
| J) SAFETY STANDARD           | (A) UL/CUL 62368-1 2 <sup>nd</sup> edition,<br>(B) IEC62368-1:2014<br>(C) EN62368-1:2014+A11                                                      |
| K) ENERGY REQUIREMENTS       | (A) DoE LEVEL VI (B) CoC VERSION 5<br>(C) ErP STEP2                                                                                               |
| L) WARRANTY                  | 1YEAR                                                                                                                                             |

#### 5)CONSTRUCTIONS:

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