

# ELJINTEK, INC.

## SWITCH MODE POWER SUPPLY

### GPSU18X-1-1(UL/EN62368) SPECIFICATION

#### 1)INPUT:

|                          |                                      |
|--------------------------|--------------------------------------|
| A) INPUT VOLTAGE RANGE   | 100 TO 240VAC (LIMIT: 90 TO 264 VAC) |
| B) INPUT FREQUENCY RANGE | 47 TO 63 HZ                          |
| C) INPUT CURRENT         | 0.5A MAX                             |
| D) LEAKAGE CURRENT       | 0.25mA MAX.@240VAC/50HZ              |

#### 2)OUTPUT:

|                            |                                  |
|----------------------------|----------------------------------|
| A) OUTPUT VOLTAGE          | +7.5VDC                          |
| B) OUTPUT CURRENT          | 2.2 A MAX.                       |
| C) OUTPUT POWER RANGE      | 15W MAX                          |
| D) RIPPLE & NOISE          | 100mVp-p MAX. (20MHZ BW)         |
| E) LOAD REGULATION         | 7.12VDC~7.87VDC(±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 +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. 84.13% MINIMUM AT 115/230VAC<br>EFF. 75.01% MINIMUM AT 230VAC@10%LOAD                                                                                                                                                                               |
| 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            | 90A 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                                                                                                                                                                                                                       |
| I) EMC REGULATIONS           | AMBIENT<br>(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<br>(A) UL/CUL 62368-1 2 <sup>nd</sup> edition,<br>(B) IEC62368-1:2014<br>(C) EN62368-1:2014+A11 |
| J) SAFETY STANDARD           | (A) DoE LEVEL VI (B) CoC VERSION 5<br>(C) ErP STEP2                                                                                                                                                                                                           |
| K) ENERGY REQUIREMENTS       | 1 YEAR                                                                                                                                                                                                                                                        |
| L) WARRANTY                  | SHOWN AS DRAWING                                                                                                                                                                                                                                              |

#### 5)CONSTRUCTIONS:

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