

# ELJINTEK, INC.

## SWITCH MODE POWER SUPPLY

### APSU15X-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 0.4A MAX
- D) LEAKAGE CURRENT 0.25mA MAX.@240VAC/50HZ

#### 2)OUTPUT:

- A) OUTPUT VOLTAGE +7.5VDC
- B) OUTPUT CURRENT 2 A MAX.
- C) OUTPUT POWER RANGE 15W MAX
- D) RIPPLE & NOISE 80mVp-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  
EFF. 74.5% 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 ±0.5% MAXIMUM AT FULL LOAD
- E) INRUSH CURRENT 60A 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  
EN55035: 2017+A11: 2020  
EN61000-3-2,3,IEC61000-4-2,3,4,5,6,8,11  
(B) FCC 47 CFR PART 15 SUBPART B  
(A) UL/CUL 62368-1 2<sup>nd</sup> edition,  
(B) IEC62368-1:2014  
(C) EN62368-1:2014+A11
- J) SAFETY STANDARD (A) DoE LEVEL VI (B) CoC VERSION 5  
(C) ErP STEP2
- K) ENERGY REQUIREMENTS
- L) WARRANTY 1 YEAR

#### 5)CONSTRUCTIONS:

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