

# ELJINTEK, INC.

## SWITCH MODE POWER SUPPLY

### APSU12X-3(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	+12VDC
B) OUTPUT CURRENT	1 A MAX.
C) OUTPUT POWER RANGE	12W MAX
D) RIPPLE & NOISE	80mVp-p MAX. (20MHZ BW)
E) LOAD REGULATION	11.64VDC~12.36VDC(±3% 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. 83.1% MINIMUM AT 115/230VAC EFF. 73.26% 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	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
I) EMC REGULATIONS	AMBIENT (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
J) SAFETY STANDARD	(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
K) ENERGY REQUIREMENTS	(A) DoE LEVEL VI (B) CoC VERSION 5
L) WARRANTY	(C) ErP STEP2

#### 5)CONSTRUCTIONS:

(A) SIZE	1YEAR
(B) ELECTRICAL CONSTRUCTION	SHOWN AS DRAWING CLASS II