

ELJINTEK, INC.

SWITCH MODE POWER SUPPLY

GPSN50X-13A SPECIFICATION

1)INPUT:

- A) INPUT VOLTAGE RANGE 100 TO 240VAC
- B) INPUT FREQUENCY RANGE 47 TO 63 HZ
- C) INPUT CURRENT 1.6A MAX
- D) LEAKAGE CURRENT 3.5mA MAX.@240VAC/50HZ

2)OUTPUT:

- A) OUTPUT VOLTAGE
 - +5VDC / 4.0AMPS
 - +12VDC / 2.0AMPS
 - +5VDC / 0.5AMPS
- B) OUTPUT POWER 46.5WATTS MAX
- C) RIPPLE & NOISE
 - 100mVp-p MAX. (+5VDC)
 - 100mVp-p MAX.(+12VDC)
 - 100mVp-p MAX.(+5VDC)
 - (±1% PEAK TO PEAK MAXIMUM)(AT 20MHZ B.W)
 - + 5VDC 、 +15VDC 、 -5VDC (±5% MAXIMUM)
 - + 5VDC (±5% MAXIMUM)
 - +15VDC (±5% MAXIMUM)
 - 5VDC (±15% MAXIMUM)

D) NO LOAD & FULL LOAD REGULATION

E) CROSS LOAD REGULATION

OUTPUT LEVEL	MIN. LOAD	HALF LOAD	MAX. LOAD
+5VDC	0.8A	2.0 A	4.0 A
+12VDC	0.4A	1.0 A	2.0 A
-5VDC	0.1A	0.25A	0.5A

F) OVER VOLTAGE PROTECTION

G) OVER CURRENT PROTECTION

H) OUTPUT SHORT PROTECTION

YES. PROTECTED BY ZENER DIODE.
YES. HICCUP MODE; AUTO-RECOVERY.
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(WHEN 5V OUTPUT SHORT ,ONLY 5V ACTIVE)

3)ENVIRONMENTAL:

- A) OPERATING TEMPERATURE -20 TO +70℃ (SAFETY APPROVAL -20 TO +40℃)
- B) STORAGE TEMPERATURE -40 TO +85℃
- C) RELATIVE HUMIDITY 5% TO 95% NON-CONDENSING
- D) DERATING FORM 100% AT 30℃ LINEARLY TO 70% AT +50℃

4)GENERAL:

- A) EFFICIENCY AVG. EFF. 84.9% MIN. AT 115/230VAC
- B) NO LOAD POWER CONSUMPTION < 0.3W
- C) HOLD-UP TIME 10 m SEC / 115VAC AT FULL LOAD
- D) LINE REGULATION 1% MAXIMUM AT FULL LOAD
- E) INRUSH CURRENT 95AMPS MAX. / 230VAC AT 25℃ 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℃ 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 2nd edition,

(B) IEC62368-1:2014

(C) EN62368-1:2014+A11

(A) DoE LEVEL VI (B) CoC VERSION 5(C) ErP STEP 2
1 YEAR

J) SAFETY STANDARD

K) ENERGY REQUIREMENTS

L) WARRANTY

5)CONSTRUCTIONS:

- (A) SIZE 146 (L)x 75.5(W) x 43(H) mm
- (B) ELECTRICAL CONSTRUCTION CLASS I
- C) EARTH GROUND CONNECTION AC INLET (FG PIN) CONNECT TO OUTPUT PLUG SHELL THRU PCB BOARD.