

ELJINTEK, INC.

SWITCH MODE POWER SUPPLY

GPSN50X-13D 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 AMPS
 +12VDC / 2 AMPS
 -12VDC / 0.5AMPS
 B) OUTPUT POWER 50WATTS MAX
 C) RIPPLE & NOISE 100mVp-p MAX. (+5VDC)
 150mVp-p MAX.(+12VDC)
 100mVp-p MAX.(-12VDC)
 (±1% PEAK TO PEAK MAXIMUM)(AT 20MHZ B.W)
 + 5VDC 、 +12VDC 、 -12VDC (±5% MAXIMUM)
 + 5VDC (±5% MAXIMUM)
 +12VDC (±5% MAXIMUM)
 -12VDC (±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 A	2 A
-12VDC	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°C (SAFETY APPROVAL TO +40°C)
 B) STORAGE TEMPERATURE -40 TO +85°C
 C) RELATIVE HUMIDITY 5% TO 95% NON-CONDENSING
 D) DERATING FORM 100% AT 30°C LINEARLY TO 70% AT +50°C

4)GENERAL:

- A) EFFICIENCY AVG. EFF. 86% 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°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 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.